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Set	Items	Description
S1	1035	AU=(UEMURA, K? OR UEMURA K?)
S2	82	AU=(OHMURA, A? OR OHMURA A?)
S3	161	AU=(MITSUHASHI, S? OR MITSUHASHI S?)
S4	680	AU=(TOIDA, T? OR TOIDA T?)
S5	3	S1 AND S2 AND S3 AND S4

? show files

File 344:Chinese Patents Abs Aug 1985-2004/May

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File 347:JAPIO Nov 1976-2004/Jul (Updated 041102)

(c) 2004 JPO &amp; JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &amp;UP=200471

(c) 2004 Thomson Derwent

File 348:EUROPEAN PATENTS 1978-2004/Oct W05

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041104,UT=20041028

(c) 2004 WIPO/Univentio

5/5/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

014998641

WPI Acc No: 2003-059156/200305

XRPX Acc No: N03-045789

**Electronic shop providing method has bulletin board**

Patent Assignee: NIKON CORP (NIKR ); NIKON PHOTO PROD INC (NIKR ); NIKON SYSTEMS INC (NIKR ); NIKON TECHNOLOGIES INC (NIKR ); NIKON GIJUTSU KOBO KK (NIKO-N); NIKON CAMERA HANBAI KK (NIKR ); NIKON GIJUTSU KOBO KK (NIKR ); NIKON SYSTEM KK (NIKR )

Inventor: MITSUHASHI S ; OHMURA A ; TOIDA T ; UEMURA K

Number of Countries: 101 Number of Patents: 011

## Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200295640	A1	20021128	WO 2002JP4812	A	20020517	200305 B
JP 2002342376	A	20021129	JP 2001149969	A	20010518	200309
JP 2002342378	A	20021129	JP 2001149978	A	20010518	200309
JP 2002342597	A	20021129	JP 2001149948	A	20010518	200309
JP 2002342630	A	20021129	JP 2001149927	A	20010518	200309
JP 2002342631	A	20021129	JP 2001149935	A	20010518	200309
JP 2002342790	A	20021129	JP 2001149958	A	20010518	200309
EP 1394709	A1	20040303	EP 2002726434	A	20020517	200417
			WO 2002JP4812	A	20020517	
US 20040107147	A1	20040603	WO 2002JP4812	A	20020517	200436
			US 2003713097	A	20031117	
AU 2002256893	A1	20021203	AU 2002256893	A	20020517	200452
CN 1509451	A	20040630	CN 2002810196	A	20020517	200462

Priority Applications (No Type Date): JP 2001149978 A 20010518; JP 2001149927 A 20010518; JP 2001149935 A 20010518; JP 2001149948 A 20010518; JP 2001149958 A 20010518; JP 2001149969 A 20010518

## Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200295640 A1 J 168 G06F-017/60

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

JP 2002342376 A 52 G06F-017/30

JP 2002342378 A 50 G06F-017/30

JP 2002342597 A 51 G06F-017/60

JP 2002342630 A 51 G06F-017/60

JP 2002342631 A 51 G06F-017/60

JP 2002342790 A 51 G06T-017/40

EP 1394709 A1 E G06F-017/60 Based on patent WO 200295640

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 20040107147 A1 G06F-017/60 Cont of application WO 2002JP4812

AU 2002256893 A1 G06F-017/60 Based on patent WO 200295640

CN 1509451 A G06F-017/60

Abstract (Basic): WO 200295640 A1

NOVELTY - A service provider arranges a server at a data center and a service user connects a terminal to the Internet to search for a Web site. When the service user specifies the URL of a Web site server from a terminal which can access the Internet, data on a content stored in

the server is read out and transmitted to the service user terminal.  
The contents are classified into seven categories: member registration,  
new information, product information, service support, online album,  
online shop, and community.

pp; 168 DwgNo 0/67

Title Terms: ELECTRONIC; SHOP; METHOD; BOARD

Derwent Class: Q35; T01

International Patent Class (Main): G06F-017/30; G06F-017/60; G06T-017/40

International Patent Class (Additional): B65G-061/00; G06F-013/00;

G06T-001/00; G06T-003/00; H04N-001/387; H04N-007/173

File Segment: EPI; EngPI

5/5/2 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01532889

ELECTRONIC SHOP PROVIDING METHOD, SITE SEARCH METHOD, AND BULLETIN BOARD  
PROVIDING METHOD

BEREITSTELLUNGSVERFAHREN FUR EINEN ELEKTRONISCHEN LADEN, SITE-SUCHVERFAHREN  
UND BULLETIN-BOARD-BEREITSTELLUNGSVERFAHREN

PROCEDE DE FOURNITURE DE MAGASIN VIRTUEL, PROCEDE DE RECHERCHE DE SITES, ET  
PROCEDE DE FOURNITURE TABLEAU D'AFFICHAGE

PATENT ASSIGNEE:

Nikon Corporation, (1099921), 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo  
100-8331, (JP), (Applicant designated States: all)

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Nikon Photo Products Inc., (4286590), 23-1, Azumabashi 1-chome, Sumida-ku,  
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Nikon Systems Inc., (4283780), 2-3-3, Minatomirai, Nishi-ku,  
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all)

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LEGAL REPRESENTATIVE:

Walaski, Jan Filip et al (92081), Venner, Shipley & Co, 20 Little Britain  
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PATENT (CC, No, Kind, Date): EP 1394709 A1 040303 (Basic)  
WO 2002095640 021128

APPLICATION (CC, No, Date): EP 2002726434 020517; WO 2002JP4812 020517

PRIORITY (CC, No, Date): JP 2001149927 010518; JP 2001149935 010518; JP  
2001149948 010518; JP 2001149958 010518; JP 2001149969 010518; JP  
2001149978 010518

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60; G06F-013/00

ABSTRACT EP 1394709 A1

A service provider places a server at a data center and a service user  
searches a website, connecting a terminal to the Internet. When the

service user specifies URL of a website server via a terminal accessible to the Internet, data of content stored onto the server is read out and transmitted to the server of the service user. Content has seven classified categories such as a membership registration, all-new information, product information, a service/support, an on-line album, an on-line shop and a community.

ABSTRACT WORD COUNT: 85

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030122 A1 International application. (Art. 158(1))  
 Application: 030122 A1 International application entering European phase

Application: 040303 A1 Published application with search report  
 Examination: 040303 A1 Date of request for examination: 20031201

LANGUAGE (Publication, Procedural, Application): English; English; Japanese  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200410	2923
SPEC A	(English)	200410	31690
Total word count - document A			34613
Total word count - document B			0
Total word count - documents A + B			34613

5/5/3 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00961514 \*\*Image available\*\*

ELECTRONIC SHOP PROVIDING METHOD, SITE SEARCH METHOD, AND BULLETIN BOARD PROVIDING METHOD

PROCEDE DE FOURNITURE DE MAGASIN VIRTUEL, PROCEDE DE RECHERCHE DE SITES, ET PROCEDE DE FOURNITURE TABLEAU D'AFFICHAGE

Patent Applicant/Assignee:

NIKON CORPORATION, 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-8331, JP, JP (Residence), JP (Nationality), (For all designated states except: US)

NIKON TECHNOLOGIES INC, 3-25, Futaba 1-chome, Shinagawa-ku, Tokyo 142-0043, JP, JP (Residence), JP (Nationality), (For all designated states except: US)

NIKON PHOTO PRODUCTS INC, 23-1, Azumabashi 1-chome, Sumida-ku, Tokyo 130-8677, JP, JP (Residence), JP (Nationality), (For all designated states except: US)

NIKON SYSTEMS INC, 2-3-3, Minatomirai, Nishi-ku, Yokohama-city, Kanagawa 220-6116, JP, JP (Residence), JP (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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TOIDA Takashi, C/O NIKON SYSTEMS INC., 2-3-3, Minatomirai, Nishi-ku, Yokohama-city, Kanagawa 220-6116, JP, JP (Residence), JP (Nationality),

(Designated only for: US

Legal Representative:

NAGAI Fuyuki (agent), Kazan Building, 3-2-4, Kasumigaseki, Chiyoda-ku,  
Tokyo 100-0013, JP,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200295640 A1 20021128 (WO 0295640)

Application: WO 2002JP4812 20020517 (PCT/WO JP0204812)

Priority Application: JP 2001149927 20010518; JP 2001149935 20010518; JP  
2001149948 20010518; JP 2001149958 20010518; JP 2001149969 20010518; JP  
2001149978 20010518

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK  
SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/60

International Patent Class: G06F-017/60; G06F-013/00

Publication Language: Japanese

Filing Language: Japanese

English Abstract

A service provider arranges a server at a data center and a service user connects a terminal to the Internet to search for a Web site. When the service user specifies the URL of a Web site server from a terminal which can access the Internet, data on a content stored in the server is read out and transmitted to the service user terminal. The contents are classified into seven categories: member registration, new information, product information, service support, online album, online shop, and community.

French Abstract

Un fournisseur de services etablit un serveur au niveau d'un centre de donnees et un utilisateur de services relie un terminal au reseau Internet pour la recherche d'un site Web. Lorsque l'utilisateur precise l'adresse d'un serveur de site Web a partir d'un terminal ayant acces au reseau Internet, l'information concernant un contenu stocke dans le serveur est lue et transmise au terminal de l'utilisateur de services. Les contenus sont classifies en sept categories : enregistrement de membres, information nouvelle, information de produits, support de services, album en ligne, magasin virtuel, et communautaire.

Legal Status (Type, Date, Text)

Publication 20021128 A1 With international search report.

Examination 20030417 Request for preliminary examination prior to end of  
19th month from priority date

Set	Items	Description
S1	2745	AU=(UEMURA, K? OR UEMURA K?)
S2	220	AU=(OHMURA, A? OR OHMURA A?)
S3	743	AU=(MITSUHASHI, S? OR MITSUHASHI S?)
S4	316	AU=(TOIDA, T? OR TOIDA T?)
S5	0	S1 AND S2 AND S3 AND S4
S6	4024	S1:S4
S7	0	S6 AND INVENTORY()CONTROL
S8	0	S6 AND INVENTORY()MANAGEMENT
S9	0	S6 AND ONLINE()SHOPPING
S10	0	S6 AND (E OR ELECTRONIC)() COMMERCE
S11	0	S6 AND ELECTRIC()SHOP

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File 2:INSPEC 1969-2004/Oct W5  
 (c) 2004 Institution of Electrical Engineers

File 35:Dissertation Abs Online 1861-2004/Oct  
 (c) 2004 ProQuest Info&Learning

File 65:Inside Conferences 1993-2004/Nov W1  
 (c) 2004 BLDSC all rts. reserv.

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Sep  
 (c) 2004 The HW Wilson Co.

File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
 (c) 2003 EBSCO Pub.

File 474:New York Times Abs 1969-2004/Nov 08  
 (c) 2004 The New York Times

File 475:Wall Street Journal Abs 1973-2004/Nov 08  
 (c) 2004 The New York Times

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
 (c) 2002 The Gale Group

File 6:NTIS 1964-2004/Oct W5  
 (c) 2004 NTIS, Intl Cpyrght All Rights Res

File 7:Social SciSearch(R) 1972-2004/Oct W5  
 (c) 2004 Inst for Sci Info

File 8:Ei Compendex(R) 1970-2004/Oct W5  
 (c) 2004 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2004/Oct W5  
 (c) 2004 Inst for Sci Info

File 94:JICST-EPlus 1985-2004/Oct W2  
 (c) 2004 Japan Science and Tech Corp(JST)

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 1998 Inst for Sci Info

Set	Items	Description
S1	1493291	REALTIME OR REAL()TIME OR AUTOMATIC? OR DYNAMIC? OR LIVE OR ON(1W)FLY OR IMMEDIATE? OR INSTANT? OR INTERACTIV? OR JUST(1-W)TIME OR JIT
S2	770409	STOCK OR INVENTORY OR MERCHANDISE OR COMMODITY OR ORDER? ? OR SALE? ?
S3	3869293	CONTROL OR MANAGEMENT OR MONITOR? OR REPORT? OR TRACK?
S4	331761	AVAILABILIT? OR STATUS OR BALANCE? OR IN()STOCK OR OUT(1W)-STOCK
S5	3849896	LEVEL? OR QUANTITY OR TARGET? ? OR AMOUNT OR NUMBER OR QUOTA OR MINIMUM OR MAXIMUM OR MIN()MAX
S6	540523	DROPS OR HITS OR REACH? OR GOES()BELOW OR ATTAIN OR ARRIVE
S7	509326	NOTICE OR NOTIFY OR NOTIFICATION? OR ALERT? OR UPDATE? ? OR TRANSMIT OR SEND OR EMAIL OR BULLETIN()BOARD
S8	4087714	MANAGER? ? OR MANAGEMENT OR STORE? ? OR CONTROL OR STOCKROOM? ?
S9	12194	(E OR ELECTRONIC OR ONLINE OR INTERNET OR CYBER) (1W) (COMMERCE OR SHOP? OR RETAIL? OR SALES OR SELLING OR ORDER? ? OR ORDERING)
S10	19199	S2(1N)S3
S11	611	S10(5N)S1
S12	261	S11 AND (S4 OR S5)
S13	9	S12 AND S6
S14	249	S12 AND (S7 OR S8)
S15	4	S14 AND S9

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File 344:Chinese Patents Abs Aug 1985-2004/May

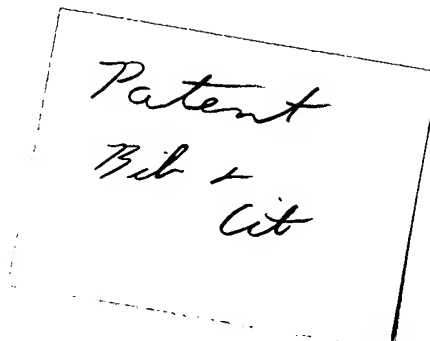
(c) 2004 European Patent Office

File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200471

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15/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015166180 \*\*Image available\*\*

WPI Acc No: 2003-226708/200322

**Advertisement business model and program using product data management  
business system using communication networks**

Patent Assignee: LEE H J (LEE H-I)

Inventor: LEE H J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002077558	A	20021012	KR 200117302	A	20010402	200322 B

Priority Applications (No Type Date): KR 200117302 A 20010402

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2002077558	A	1	G06F-017/60	

Abstract (Basic): KR 2002077558 A

NOVELTY - An advertisement business model and program using product data **management** business system using communication networks are provided to support optimal **e - commerce** environment using **real - time stock management** on the web sites.

DETAILED DESCRIPTION - The web server(20) of the service provider is connected to the users(30), registered companies(40), and delivering companies(50) using communication networks(10) including the Internet. The web server is connected to the **e - commerce** server, which controls trade contract, electronic settlement, and delivery. The database server(25) provides the database service like creating, editing and deleting data, to the authorized user. The registered user can access the server and input the product information like name, manufacturer, seller, selling price, **number** of stock, etc. This information can be used for advertisement to the user, and the user decides to purchase and product, the result is reflected to the DB automatically. The user can input the wanted product information and the system looks for the matched product. Using this, the system also provides the advertisement.

pp; 1 DwgNo 1/10

Title Terms: ADVERTISE; BUSINESS; MODEL; PROGRAM; PRODUCT; DATA;

**MANAGEMENT** ; BUSINESS; SYSTEM; COMMUNICATE; NETWORK

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

15/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014830977 \*\*Image available\*\*

WPI Acc No: 2002-651683/200270

XRPX Acc No: N02-516275

**Inventory control system for e - commerce applications, uses  
inventory control software to automatically verify amount of  
stock, and predict purchase order of components**

Patent Assignee: SHIMADZU CORP (SHMA )

Number of Countries: 001 Number of Patents: 001

Patent Family:



Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002236730	A	20020823	JP 200134885	A	20010213	200270 B

Priority Applications (No Type Date): JP 200134885 A 20010213

## Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002236730	A		8 G06F-017/60	

Abstract (Basic): JP 2002236730 A

NOVELTY - A computer system connected to a component supply manufacturer (13), a manufacture enterprise (14), an agency (15), a service firm (16), an individual user through internet (12), **stores stock amount** based on which necessary purchase order is made. The **stock amount** is verified using an **inventory control** software to **automatically** verify the **stock amount** and to predict the purchase order.

USE - Inventory **control** system for **e - commerce** application.

ADVANTAGE - Since the purchase order is automatically predicted according to the **stock amount**, human judgment mistake in **inventory control** is eliminated, thereby improving the efficiency of the **inventory control** system operation.

DESCRIPTION OF DRAWING(S) - The figure shows the **inventory control** system. (Drawing includes non-English language text).

Internet (12)

Component supply manufacture (13)

Manufacture enterprise (14)

Agency (15)

Service firm (16)

pp; 8 DwgNo 1/7

Title Terms: INVENTORY; **CONTROL**; SYSTEM; APPLY; INVENTORY; **CONTROL**; SOFTWARE; AUTOMATIC; VERIFICATION; **AMOUNT**; STOCK; PREDICT; PURCHASE; ORDER; COMPONENT

Derwent Class: Q35; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): B65G-061/00

File Segment: EPI; EngPI

15/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014753275 \*\*Image available\*\*

WPI Acc No: 2002-573979/200261

XRPX Acc No: N02-454866

Electronic commerce system for online shopping over computer network, determines whether error of corresponding order is correct and executes selective order control based on determination result

Patent Assignee: LG ELECTRONICS INC (GLDS )

Inventor: YOO Y M; CHOI G S; CHOE K S; YOU Y M

Number of Countries: 002 Number of Patents: 004

## Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020069082	A1	20020606	US 2001998412	A	20011203	200261 B
KR 2002043318	A	20020610	KR 200072638	A	20001202	200278
KR 2002063957	A	20020807	KR 20014467	A	20010131	200308
KR 2002063956	A	20020807	KR 20014466	A	20010131	200308

Priority Applications (No Type Date): KR 20014467 A 20010131; KR 200072638 A 20001202; KR 20014466 A 20010131

## Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020069082	A1		33	G06F-017/60	
KR 2002043318	A			G06F-017/60	
KR 2002063957	A			G06F-019/00	
KR 2002063956	A			G06F-017/60	

Abstract (Basic): US 20020069082 A1

NOVELTY - Order **control** server gathers information about the items ordered through the web server and the order error items **stored** in the database server to determine whether the error of the corresponding order is correct and to execute a selective order **control** based on the determination result.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for method of operating an **electronic commerce** system.

USE - **Electronic commerce** system for **online shopping** over computer network.

ADVANTAGE - Checks whether errors have occurred in orders placed by dealing companies and cures generated errors **automatically**. Improves **order management** efficiency by eliminating the need for checking and confirming individual order items of the product. Controls orders for each product model and prevents unnecessary purchase orders by performing real time sales restriction, during the establishment of special condition. Accelerates product purchasing speed, makes **e-commerce** more dynamic and manages shipment easily and conveniently.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart illustrating the process for registering a product **availability** for each order of the dealing company.

pp; 33 DwgNo 3/17

Title Terms: ELECTRONIC; SYSTEM; SHOPPING; COMPUTER; NETWORK; DETERMINE; ERROR; CORRESPOND; ORDER; CORRECT; EXECUTE; SELECT; ORDER; **CONTROL** ; BASED; DETERMINE; RESULT

Derwent Class: T01

International Patent Class (Main): G06F-017/60; G06F-019/00

File Segment: EPI

15/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014152988 \*\*Image available\*\*

WPI Acc No: 2001-637207/200173

Method for automatically reporting user's order in internet electronic commerce hosting service system

Patent Assignee: KOREA TELECOM (KOTE-N)

Inventor: BAEK E G; KIM J G; KONG G T; LEE J W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001048909	A	20010615	KR 9953791	A	19991130	200173 B

Priority Applications (No Type Date): KR 9953791 A 19991130

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2001048909	A		1	H04L-012/58	

Abstract (Basic): KR 2001048909 A

NOVELTY - A method for automatically reporting a user's order in an **internet electronic commerce** hosting service system is provided

to automatically report an order state with respect to an order, shop manager and mall manager based on a user's order state change in an Internet electronic commerce hosting service system.

DETAILED DESCRIPTION - An order information of a user is divided into payment information and delivery information for thereby detailing an order state. When the order state is changed from the user, an Internet electronic commerce hosting server searches contact information from an order information database of the user and informs the order state change to the user based on the type of the contact and the payment information. The internet electronic commerce hosting server transmits an e-mail to the main server based on an e-mail address stored in the user's order information database and automatically reports the order state using a telephone number or fax. The Internet electronic commerce hosting server checks the user's contact information and order state change state in the order information database of the user when the order state of the user is changed and reports the order state change. The user's order state is reported to the shop manager, delivery manager and mall manager based on an e-mail for thereby performing the work with respect to the order state change.

pp; 1 DwgNo 1/10

Title Terms: METHOD; AUTOMATIC; REPORT; USER; ORDER; ELECTRONIC; SERVICE; SYSTEM

Derwent Class: W01

International Patent Class (Main): H04L-012/58

File Segment: EPI

Set	Items	Description
S1	1493291	REALTIME OR REAL()TIME OR AUTOMATIC? OR DYNAMIC? OR LIVE OR ON(1W)FLY OR IMMEDIATE? OR INSTANT? OR INTERACTIV? OR JUST(1-W)TIME OR JIT
S2	770409	STOCK OR INVENTORY OR MERCHANDISE OR COMMODITY OR ORDER? ? OR SALE? ?
S3	3869293	CONTROL OR MANAGEMENT OR MONITOR? OR REPORT? OR TRACK?
S4	331761	AVAILABILIT? OR STATUS OR BALANCE? OR IN()STOCK OR OUT(1W)-STOCK
S5	3849896	LEVEL? OR QUANTITY OR TARGET? ? OR AMOUNT OR NUMBER OR QUOTA OR MINIMUM OR MAXIMUM OR MIN()MAX
S6	540523	DROPS OR HITS OR REACH? OR GOES()BELOW OR ATTAIN OR ARRIVE
S7	509326	NOTICE OR NOTIFY OR NOTIFICATION? OR ALERT? OR UPDATE? ? OR TRANSMIT OR SEND OR EMAIL OR BULLETIN()BOARD
S8	4087714	MANAGER? ? OR MANAGEMENT OR STORE? ? OR CONTROL OR STOCKROOM? ?
S9	12194	(E OR ELECTRONIC OR ONLINE OR INTERNET OR CYBER) (1W) (COMMERCE OR SHOP? OR RETAIL? OR SALES OR SELLING OR ORDER? ? OR ORDERING)
S10	19199	S2(1N)S3
S11	611	S10(5N)S1
S12	261	S11 AND (S4 OR S5)
S13	9	S12 AND S6
S14	249	S12 AND (S7 OR S8)
S15	4	S14 AND S9

? show files

File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office

File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200471  
(c) 2004 Thomson Derwent

13/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05182470 \*\*Image available\*\*  
MEDICINE STOCK MANAGEMENT SYSTEM DEVICE

PUB. NO.: 08-137970 [JP 8137970 A]  
PUBLISHED: May 31, 1996 (19960531)  
INVENTOR(s): MINATO AKITO  
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-277336 [JP 94277336]  
FILED: November 11, 1994 (19941111)  
INTL CLASS: [6] G06F-019/00; B41F-033/00; B41F-033/16; G06F-017/60  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 14.4  
(ORGANIC CHEMISTRY -- Medicine); 29.4 (PRECISION INSTRUMENTS  
-- Business Machines)  
JAPIO KEYWORD: R002 (LASERS); R131 (INFORMATION PROCESSING -- Microcomputers  
& Microprocessors)

## ABSTRACT

PURPOSE: To inexpensively **attain** efficient management also for articles such as dangerous substances requiring rigid management in addition to simple **inventory management** by updating data at **real time** by a magnetic card or an optical card owned by each user in the case of managing the total **quantity** of order and inventory at the time of warehousing and shipping.

CONSTITUTION: Warehousing and shipping management for purchased medicines is executed by a computer. When a magnetic card or an optical card is inputted to an input device 1, stored management data are read out and inventory management information stored in a main storage device 4 or an external storage device 3 can be retrieved/checked through a central processing unit (CPU) 2. The retrieved inventory management information can be printed out by a printer or the like to be an output device and also transmitted through a facsimile. The CPU is respectively connected to the input device 1 and the output device 5 respectively through networks such as an 'Ethernet' or a token ring

13/5/9 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

007161463  
WPI Acc No: 1987-158472/198723  
XRPX Acc No: N87-118951

Automatic inventory tracking **apparatus e.g. for hospital - is responsive to singular stock changes and has critical stock level preselection and detection**

Patent Assignee: KIMBROW R H (KIMB-I)  
Inventor: KIMBROW R H  
Number of Countries: 005 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 224685	A	19870610	EP 86114112	A	19861011	198723 B
US 4737910	A	19880412	US 85787533	A	19851015	198817
CA 1281135	C	19910305				199115

Priority Applications (No Type Date): US 85787533 A 19851015

Cited Patents: 2.Jnl.Ref; A3...8841; DE 2751066; GB 1342752; No-SR.Pub

## Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 224685	A	E	14		
Designated States (Regional): DE FR GB					
US 4737910	A		6		

## Abstract (Basic): EP 224685 A

An indication is provided of the **number** of items in inventory, as is the **number** of items needed to fill inventory. Removal of an item from inventory is registered via a piezoelectric detector and when a preset critical inventory **level** is **reached**, it is announced. A printer produces a hard copy to show all inventory states, and a remote display monitor indicates inventory **status**. The **number** of items in the inventory is indicated on an LCD. A second display provides a visually observable count of the **number** of items to be placed into the inventory to replenish it to its **maximum level**.

USE/ADVANTAGE - Automatic indication of stock **levels** without need of regular stock checks.

1/5

Title Terms: AUTOMATIC; INVENTORY; TRACK; APPARATUS; HOSPITAL; RESPOND;  
SINGULAR; STOCK; CHANGE; CRITICAL; STOCK; **LEVEL**; PRESELECTED; DETECT

Derwent Class: T01

International Patent Class (Additional): G06F-015/24

File Segment: EPI

13/TI/1 (Item 1 from file: 347)  
DIALOG(R)File 347:(c) 2004 JPO & JAPIO. All rts. reserv.

INVENTORY MANAGEMENT SYSTEM FOR CONSUMABLE ITEMS OF PRINTING DEVICE

13/TI/2 (Item 2 from file: 347)  
DIALOG(R)File 347:(c) 2004 JPO & JAPIO. All rts. reserv.

SALES MANAGEMENT DEVICE FOR AUTOMATIC VENDING MACHINE

13/TI/3 (Item 3 from file: 347)  
DIALOG(R)File 347:(c) 2004 JPO & JAPIO. All rts. reserv.

MEDICINE STOCK MANAGEMENT SYSTEM DEVICE

13/TI/4 (Item 4 from file: 347)  
DIALOG(R)File 347:(c) 2004 JPO & JAPIO. All rts. reserv.

COMMODITY LIFTER CONTROL DEVICE FOR AUTOMATIC VENDING MACHINE

13/TI/5 (Item 5 from file: 347)  
DIALOG(R)File 347:(c) 2004 JPO & JAPIO. All rts. reserv.

IMAGE FORMING DEVICE

13/TI/6 (Item 6 from file: 347)  
DIALOG(R)File 347:(c) 2004 JPO & JAPIO. All rts. reserv.

PROPORTIONAL FLOW ADJUSTING METER

13/TI/7 (Item 1 from file: 350)  
DIALOG(R)File 350:(c) 2004 Thomson Derwent. All rts. reserv.

Industrial fluid flow device e.g. for glue- or paint-dispensing guns -  
has control device connected to electric drive for threaded elongate  
shaft controlling partial flow positions of valve

13/TI/8 (Item 2 from file: 350)  
DIALOG(R)File 350:(c) 2004 Thomson Derwent. All rts. reserv.

Trigger device for removing part of hydraulic structure - comprises one  
or more impermeable panels which are washed away once the water level  
reaches a predetermined height

13/TI/9 (Item 3 from file: 350)  
DIALOG(R)File 350:(c) 2004 Thomson Derwent. All rts. reserv.

Automatic inventory tracking apparatus e.g. for hospital - is  
responsive to singular stock changes and has critical stock level  
preselection and detection

Set	Items	Description
S1	751277	REALTIME OR REAL()TIME OR AUTOMATIC? OR DYNAMIC? OR LIVE OR ON(1W)FLY OR IMMEDIATE? OR INSTANT? OR INTERACTIV? OR JUST(1- W)TIME OR JIT
S2	1014157	STOCK OR INVENTORY OR MERCHANDISE OR COMMODITY OR ORDER? ? OR SALE? ?
S3	2073012	CONTROL OR MANAGEMENT OR MONITOR? OR REPORT? OR TRACK?
S4	311843	AVAILABILIT? OR STATUS OR BALANCE? OR IN()STOCK OR OUT(1W)- STOCK
S5	1368091	LEVEL? OR QUANTITY OR TARGET? ? OR AMOUNT OR NUMBER OR QUO- TA OR MINIMUM OR MAXIMUM OR MIN()MAX
S6	545514	DROPS OR HITS OR REACH? OR GOES()BELOW OR ATTAIN OR ARRIVE
S7	273947	NOTICE OR NOTIFY OR NOTIFICATION? OR ALERT? OR UPDATE? ? OR TRANSMIT OR SEND OR EMAIL OR BULLETIN()BOARD
S8	991650	MANAGER? ? OR MANAGEMENT OR STORE? ? OR CONTROL OR STOCKRO- OM? ?
S9	14177	(E OR ELECTRONIC OR ONLINE OR INTERNET OR CYBER) (1W) (COMME- RCE OR SHOP? OR RETAIL? OR SALES OR SELLING OR ORDER? ? OR OR- DERING)
S10	39992	S2(1N)S3
S11	719	S10(3N)S1
S12	132867	S5(10N)S6
S13	87	S11(S) (S12 OR S4)
S14	73	S13(S) (S7 OR S8)
S15	14	S14(S)S9
S16	33	S14 AND S9
S17	22	S16 NOT PY>2001

? logoff hold

File 348:EUROPEAN PATENTS 1978-2004/Oct W05

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041104,UT=20041028

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17/3,K/2 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00835890 \*\*Image available\*\*

ON-LINE E - COMMERCE SYSTEM AND METHOD USING AUTOMATIC VENDING APARATUS  
SYSTEME ET PROCEDE DE COMMERCE ELECTRONIQUE EN LIGNE UTILISANT UN  
DISTRIBUTEUR AUTOMATIQUE

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designated states except: US)

Patent Applicant/Inventor:

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(Designated only for: US)

Legal Representative:

KIM Yeon Soo (agent), 648-23 Yeoksam-dong, Kangnam-gu, Seoul 135-080, KR,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200169554 A1 20010920 (WO 0169554)

Application: WO 2000KR944 20000823 (PCT/WO KR0000944)

Priority Application: KR 200013075 20000315

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: Korean

Fulltext Word Count: 7058

ON-LINE E - COMMERCE SYSTEM AND METHOD USING AUTOMATIC VENDING APARATUS

Fulltext Availability:

Detailed Description

Claims

English Abstract

The invention relates to an on-line e - commerce system using automatic  
vending apparatuses with a product supply unit to store, extract and  
discharge...

Detailed Description

ON-LINE E - COMMERCE SYSTEM AND METHOD USING AUTOMATIC VENDING  
APPARATUS

FIELD OF THE INVENTION

The present invention relates to an on-line e - commerce system using  
an  
automatic vending system and a method thereof and more particularly to an  
on  
line e - commerce system and method using automatic vending system  
which  
automatically discharges and collectively sells various goods...

...comr-nerce system, a consumer gets on the internet to be in touch with an **e - commerce** server, orders desired goods and inputs required information on his/her credit card number and so on.

The **e - commerce** server transmits the consumer's credit card data and the like to a computer of...

...account belonging to a shopping mail homepage operator and notifies the monetary transition to the **e - commerce** server.

Then, the **e - commerce** server sends data on a list of ordered goods and a place to get the...

...sized shopping centers located in many different regions.

However, there are disadvantages in the conventional **e - commerce** system in that the medium/small sized shopping centers are not operated so  
I automatically...

...problems and it is an object of the invention to provide an on-line **e - commerce**  
J system using a plurality of automatic vending apparatuses installed in a plurality of automated...

...of products with the control computers of the automatic vending apparatuses being connected with the **e - commerce** server to thereby make it possible to get ordered goods automatically extracted and packaged to...

...a purchaser.

In addition, it is another object of the present invention to provide an **online e - commerce** system using a plurality of automatic vending apparatuses installed in a plurality of shopping malls where the control computers of the automatic vending apparatuses are in connection with an **e - commerce** server to automatically manage all the inventory of goods on the real time basis.

In...

...to achieve the aforementioned objects of the present invention, there is provided an on-line **e - commerce** system using automatic vending apparatuses with a product supply unit to store, extract and discharge...

...with the delivery place data by a customer.  
At the same time, the on-line **e - commerce** system also includes: an inventory data base constructed to monitor inventory of all the goods...

...thereof if the product supplier computer receives the inventory refill signal data.

The on-line **e - commerce** system further includes a user verifying management module which sends the user verifying data to...

...objects of the present invention, there is provided a method for operating an on-line **e commerce** system using automatic vending apparatuses which respectively  
3 include a product supply unit to store...

...computer which is connected with a shopping mall home page provided by the on-line **e - commerce** system; storing the shopping related data in conjunction with the customer differentiating number data as...

...data.  
It is also preferable that the method for purchasing goods on the on-line **e - commerce** system further includes the steps of: enabling the control computer to transmit product refill signal...

...at the product supply unit gets below a predetermined level thereof; enabling the on-line **e - commerce** system to transmit the product refill signal data to computers of product suppliers; and enabling...

...thereof.

4

Furthermore, it is preferable that method for purchasing goods on the on-line **e - commerce** system additionally includes a step of enabling the on-line **e - commerce** system to transmit the user verifying data to a computer of a user verifying agency...

...computer;  
FIG. 5 is a conceptual block diagram for illustrating the relationship of on-line **e - commerce** system and some components connected therewith in accordance with the embodiment of the present invention...  
...preferred embodiments with reference to the accompanying drawings.

As shown FIG. 5, an on-line **e - commerce** system 5 is connected with a customer computer 502, a computer of a user verifying...

...connected with a product delivery company computer 512. At the same time, the on-line **e - commerce** system 5 includes a shopping mall home page management module  
io 5a, an order data...to the control computer. The control computer transmits the signal data to the on-line **e - commerce** system to thereby achieve an **automatic inventory management** of goods in **stock**. Also, the sub-conveyors, main conveyor, autopackaging units, product discharging outlets and card returning slot also have respective driving parts and **control** parts of MICs.

The MICs are connected with product supply control units 15. In the...via the control computer 508 to the inventory management module 5d of the on-line **e - commerce** system 5, which transmits the signal data to the computer 506 of the product supplier...  
...Then, the customer information of the on-line customer is transmitted to the on-line **e - commerce** system via the customer computer.

The on-line **e - commerce** system transmits the customer information on

the  
17  
customer's credit card number sent by...

...verifying agency receives the request on approval of the credit card from the on-line **e - commerce** system and finds no problem in the request, it transmits an approval number data back to the on-line **e - commerce** system.

In other words, the computer of the credit card verifying agency transmits approved data on credit card number to the on-line **e - commerce** system and, at the same time, the data on customer's use of the credit...

...is to be made from the customer's account and deposited to the on-line **e - commerce** operator's account. Such deposit is immediately to be notified to the on-line **e - commerce** system. Then, the on-line **e - commerce** system confirming the approved credit card number data is to transmit the approved credit card...

...information on the designated place

18  
through the shopping mall home page, the on-line **e - commerce** system transmits all the shopping related data including the customer's differentiating number, ordered goods...the product supply part, Since the order data base management module of the on-line **e - commerce** system has transmitted the customer differentiating number data to the customer computer, it becomes possible...

...of the appended claims.

As described above, there is an advantage in the on-line **e - commerce** system of the present invention in that all the goods ordered on the on-line **e commerce** system can be automatically extracted, packaged, discharged and placed ready for pick-up to thereby...  
...goods delivered to the customer.

In addition, there is another advantage in the on-line **e - commerce** system according to the present invention in that, the inventory stored at the automatic  
19...

...of goods, inventory refill signal data are to be transmitted to product suppliers via the **e - commerce** server to thereby make it possible to automatically manage the inventory of goods on the...

#### Claim

1 An on-line **e - commerce** system using automatic vending apparatuses with a product supply unit to store, extract and discharge...

...verifying agency for an approval of dealings.

5 A method for operating an on-line **e - commerce** system using automatic vending apparatuses which respectively include a product supply unit to store, extract...

...computer which is connected with a shopping mall home page provided by the on-line **e - commerce** system;  
storing the shopping related data in conjunction with the customer differentiating number data as...

...enabling the control computer to transmit product refill signal data to the io on-line **e - commerce** system when the number of goods stored in stock at the  
product supply unit gets below a predetermined level thereof;  
enabling the on-line **e - commerce** system to transmit the product refill signal data to computers of product suppliers; and  
enabling...

...order data to the control computer,  
additionally including a step of enabling the on-line **e - commerce** system to transmit the user verifying data to a computer of a user verifying agency...

17/3,K/5 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00806392

TECHNOLOGY SHARING DURING ASSET MANAGEMENT AND ASSET TRACKING IN A  
NETWORK-BASED SUPPLY CHAIN ENVIRONMENT AND METHOD THEREOF  
PARTAGE TECHNOLOGIQUE LORS DE LA GESTION ET DU SUIVI DU PARC INFORMATIQUE  
DANS UN ENVIRONNEMENT DU TYPE CHAINE D'APPROVISIONNEMENT RESEAUTEE, ET  
PROCEDE ASSOCIE

Patent Applicant/Assignee:

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Inventor(s):

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2029 Century Park East, Los Angeles, CA 90067-3024, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200139086 A2 20010531 (WO 0139086)

Application: WO 2000US32310 20001122 (PCT/WO US0032310)

Priority Application: US 99444653 19991122; US 99447623 19991122

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ  
UA UG UZ VN YU ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 156214

Fulltext Availability:

Detailed Description

Claims

## Detailed Description

... chain frameworks and more particularly pertains to managing network assets through asset tracking in an **e - Commerce** -based supply chain framework.

## BACKGROUND OF INVENTION

1 5 The ability to quickly, easily and...

...and article of manufacture are disclosed for managing network assets through asset tracking in an **e - Commerce** -based supply chain framework. Features include automatically caching web content, providing proxy services, managing load...present invention; Figure 112 illustrates a flowchart for a method for ensuring security of an **e - Commerce** system on a network in accordance with an embodiment of the present invention; Figure 113...

...security architecture in an online banking scenario; Figure 121 illustrates a sample architecture in an **online shopping** scenario; Figure 122 shows an exemplary security architecture in an **online shopping** scenario; Figure 123 illustrates a flowchart for a method for manipulating data about a customer...

...the present invention; and Figure 126 illustrates a flowchart for a method for integrating an **e - Commerce** component into an existing framework of an enterprise in accordance with an embodiment of the...or all of an installation management component 208, a demand and supply component 210, an **order** management component 212, a network asset management: component 214, a maintenance and service component 216...order management process automatically places an order with one of a plurality of suppliers when **order** information is input by one of a plurality of orderers. The order management process is...

...An execution of an ordering process is permitted when the calculated total cost of previous **orders** is within a budget of the orderer. The budget may be included in the section...

...the order limit previously set to each of the suppliers can be prevented.

Additionally, the **order management** process may further include selecting the one of the suppliers based on the order history information so that each of the suppliers equally receives **orders**. As an option, an order to be placed with a supplier may be prohibited by...provide feature rich multimedia (voice, video, data) based communication services as well as enabling many **E - Commerce** services enabled by IP technologies. These components (described later in detail) include directories, policies, user...

...multi-point conference, enhanced security & authentication, various classes of media transport services, numerous automations in **electronic internet commerce** activities e.g. banking, shopping,.

customer care, education, etc. As the NGN matures third party value added service providers will develop IP based services that will combine applications such as **electronic commerce** (procurement, warehousing, distribution and fulfillment) as well as online banking to present the consumer with an...service-related documents. It includes network performance, but also performance across all of service parameters, **e ,g., Orders**

Completed On Time. Outputs of this process are standard (predefined) and exception reports, including; dashboards...the epoch time that is the origination time of the call 3602. The other timepoint **stored** in the records are the number of seconds after Timepoint 1, that is, they are...

...a positive value.

Two commands are used when changing time. First, Figure 38 illustrates the **control** flow of the

86

Figure 39 illustrates the **control** flow for the Change Daylight Savings Time command which is the second command for changing...separate fields of the 32-word call record. That is, the Originating Switch ID is **stored** as an alphanumeric Switch ID in the Switch ID field of the SER call record; the Originating Trunk Group is **stored** in the Originating Trunk Group field of the 32-word call record; the Originating Port Number is **stored** in the Originating Port field of the 32-word call record; the Timepoint 1 is **stored** in the Timepoint 1 field of the 32-word call record; the Sequence Number is **stored** in the NCID Sequence Number field of the 32-word call record. The 32-word...

...contains the NCID. If the NCID Location field contains a '0,' then the NCID is **stored** in its separate subfields in the call record. Only intermediate and terminating switches set the NCID Location field to a 'V' because originating switches **store** the NCID in the separate fields of the 32-word call record.

Regarding the 64...

...record format, the expanded call record includes a separate field, call the NCID field, to **store** the 82 bits of the NCID. This call record is handled the same regardless of whether an originating, intermediate, or terminating switch **stores** the NCID. In the 64-word call record format, the Originating Switch ID is the...

...the alphanumeric Switch ID as recorded in the SER call record.

Figure 40 illustrates the **control** flow of the Network Call Identifier switch call processing. A call 3602 comes into a...associated NCID. Step 4020 is also described below in more detail.

Figure 41 illustrates the **control** logic for step 4010 which processes a received NCID. The current switch enters step 4102...

...4010, thereby continuing to step 4015 in Figure 40, after which the current switch will **store** the received NCID in the call record and transport the call.

Referring again to step...

...0, thereby continuing to step 4015 in Figure 40 where the current switch will **store** the received NCID in the call record and transport the call.

Figure 42 illustrates the **control** logic for step 4014 which generates an NCID. The current switch enters step 4202 when...

...which the sequence number will increase incrementally for  
92  
switch database.

Figure 43 illustrates the **control** logic for step 4015 which ...is available, the current switch proceeds to step 4306. In step 4306, the current switch **stores** the NCID in the AuthCode field of the 32-word call record. The current 1...

...set the NCID Location field to the value '1' which indicates that the NCID is **stored** in the AuthCode field. After step 4306, the current switch exits step 4015 and continues...

...call record, the current switch proceeds to step 4304. In step 4304, the current switch **stores** the NCID in the NCID field of the 64-word call record. After step 4304...

...current switch writes the call record to the local switch database.

Figure 44 illustrates the **control** logic for step 4020 which transports the call from the current switch. There are two entry points for this **control** logic: steps 4402 and 4412. Upon entering step 4402 from step 4036 on Figure 40...

...contents. This field has a binary value of '01 Pto indicate that the NCID is **stored** in the binary format.

byte 2, bits 0-7 Originating Switch ID  
byte 3, bits...

...contents. This field has a binary value of '01 Vto indicate that the NCID is **stored** in the binary format.

byte 2, bits 0-7 Originating Switch ID  
byte 3, bits...analyzes the telephone call to determine whether the default call record is sufficiently large to **store** call record information pertaining to the telephone call, or whether the expanded call record must be used to **store** the call information pertaining to the telephone call. After determining which call record to use...

...an extension to the users existing profile information. The custom profile allows a user to **store** frequent conference call participants information. The profile contains participant's telephone numbers (which could be...

...along the Internet backbone and thus set down the key rules for data communication. Transmission **Control** Protocol/Internet Protocol (TCP/IP) has an open nature and is available to everyone, meaning large set of data communications protocols, two of which are the Transmission **Control** Protocol and the Internet Protocol.

The International Telecommunication Union-Telecommunication Standardization Sector ('ITU-T') has established...

...Stream Packetization and Synchronization on nonguaranteed quality of service LANs.

ITU H.230 Frame-synchronous **Control** and Indication Signals for Audiovisual Systems  
ITU H.231 Multipoint **Control** Unit for Audiovisual Systems Using Digital Channels up to 2 Mbit/s  
ITU H.242...



...Terminals Using Digital Channels up to 2 Mbit/s  
ITU H.245 Recommendation for a **control** protocol for multimedia communication ITU H.261 Recommendation for Video Coder-Decoder for audiovisual services...

...of 64 Kbps (thousand bits per second). This rate is not the rate required to **send** digitized voice per se. Rather, 64Kbps is the rate required to **send** voice digitized with the Pulse Code Modulated (PCM) technique. Many other methods for digitizing voice...receiver; instead, whenever the sender has a block of data to be sent, it is **stored** at the first switching office and retransmitted to the next switching point after error inspection...

...that attaches to both of them. Internet gateways and routers provide those links necessary to **send** packets between networks and thus make connections possible. Without these links, data communication through the ...In packet switching systems, routing is the process of choosing a path over which to **send** packets. As mentioned before, routers are the computers that make such choices. For the routing...

...speak of routing information across the Internet backbone. In indirect delivery, routers are required. To **send** a datagram, the sender

106

The changing face of the internet world causes a steady...time.

This is utilized to predict when additional ports and/or resources are required.

#### Fault Management

The NGN operations architecture specifies the points of insertion and collections for network wide events that feed the Fault **Management** systems. Since the components of the packet portion of the hybrid NGN infrastructure are in most 15 cases manageable by SNMP or some other standard **management** protocol the major challenges are the following.

j

1. Correlation of the events from...

...and

3. Mediation and standardization of the network messages to aid processing by the network **management** framework of the NGN.

The network **management** components of the NGN provide comprehensive solutions to address these challenges. Correlation is provided by... framework like the one shown in Figure 53 to support various features such as an **electronic commerce** component 5300, a content channels component 5302, an administrative component 5304, a customer relationship management...such as distribution of entertainment on CD-ROM, content delivery from an Internet repository, or **electronic catalog shopping** and advertising, or some combination of the above) participants would be able to securely select...functionality.

Furthermore, WAF permits participants to develop business models not feasible 15 with non- **electronic commerce**, for example, involving detailed reporting of content usage information, large numbers of distinct transactions at...

...may also be extended as new control information is submitted by existing participants. With WAF, **electronic commerce** participants are free to structure and restructure their **electronic commerce** business

activities and relationships, As a result, the present invention allows a competitive electronic commerce...

...or shared

content,

A significant facet of the present invention's ability to broadly support **electronic**

**commerce** is its ability to securely manage independently delivered WAF component objects containing control information (normally...

...In combination with other aspects of the present invention, securely, independently delivered control components allow **electronic commerce** participants to freely stipulate

144

their business requirements and trade offs, As a result, much as with traditional, non- **electronic commerce**, the present invention allows **electronic commerce** (through a progressive stipulation of various control requirements by WAF participants) to evolve into forms...

...are the most efficient, competitive and usefal.

WAF provides capabilities that rationalize the support of **electronic commerce** and electronic transaction management, This rationalization stems from the reusability of control structures and user...and/or appliances (such as governments, financial credit providers, and users), WAF allows the needs of **electronic commerce** participants to be served and it can bind such participants together in a universe wide...

...related communication

and encryption techniques,

WAFs fundamental configurability will allow a broad range of competitive **electronic commerce** business models to flourish. It allows business models to be shaped to maximize revenues sources...

...handling.

#### CATALOG CAPABILITIES

148

Referring to operation 5400 of Figure 54, one embodiment of the **electronic commerce** component of the present invention is provided for allowing purchase of products and services via...and currency Accessible easily throughout: catalog

As shown in Figure 55, one embodiment of the **electronic commerce** component of the present invention is provided for facilitating a virtual shopping transaction. First, a...

...one of a plurality of currencies such as 1 5 electronic and foreign.

Recently, an **online shopping** system which allows examination, selection and order of items through a computer has been put...display page as a catalog which the consumer watches as it is realized in the **online shopping** system mainly on the World Wide Web. As another method of proving the shopping basket...

...the shopping system provided by a CD-ROM.

1 5

A main stage of the **online shopping** is an item catalog screen on which information on the items is provided. The consumer...

...preparing the contents. It may be good that the user interface is uniform in one **online shop** but when it is applied across a plurality of **online shops** of various items and scales, free design cannot be conducted. This forces to the user...

...function is provided as a separate shopping basket window from a catalog window on which **online shop** item data is displayed. The shopping basket window is displayed on the catalog window and...

...user support

With reference now to operation 5406 of Figure 54, another embodiment of the **electronic commerce** component of the present invention is provided for facilitating a virtual shopping transaction by ascertaining ...as a computer network, cable television network, or direct dial modem. Previous attempts to provide **electronic commerce**

subsystems have been custom tailored to an individual cominerce offering, and have not been adaptable...

...goods and services.

To meet this need, several companies have developed computer architectures for online **electronic catalog sales** using, for example, the Internet as a transport mechanism to transmit data representing purchase requests...

...Any of the foregoing types of browsers may employed to access various databases via the **Internet** in order to conduct **electronic commerce**-related business. Typical database or file-based shopping cart systems require that the user be...robustly secure two-party data transmissim, !t does not meet the ultimate need of the **electronic commerce** market for robustly secure three-party data transmission.

Other examples of general-purpose secure communication...selling, up-selling, advertisements, promotions to further detail or purchasing ability

One embodiment of the **electronic commerce** component of the present invention is adapted for advertising in a virtual shopping environment in ...maintenance (qty, product, shipping)

Referring to operation 5414 of Figure 54, another embodiment of the **electronic commerce** component of the present invention receives an order for at least one of the products...various underlying agreements between parties that comprise this extended agreement. These agreements can define important **electronic commerce** considerations including.

- (1) security,
- (2) content use control, including electronic distribution,
- (3) privacy (regarding, for...

...confidential. informat ion),

- (4) management of financial processes, and

188

WAF agreements may define the **electronic commerce** relationship of two or more parties of a value chain, but such agreements may, at...promotion Sends leads to sales effectiveness systems

Updates database of leads

Another aspect of the **electronic commerce** component of the present invention has the purpose of capturing interest in a product, service...

...multiple auction formats (e.g. Dutch, Reserve)

Allows tracking and analysis of auction histories  
 The **electronic commerce** component of the present invention may include an auction component for permitting a user to...of electronic agreements between subsets of the business model participants. Through the use of WAF, **electronic commerce** can function in the same way as traditional commerce--that is commercial relationships regarding products  
 ...

## Claim

... and firewall attacks.

10 An apparatus for managing network assets through asset tracking in an **e - Commerce** based supply chain framework comprising:  
 (a) logic that caches content of a network;  
 1 0...

...embodied on a computer-readable medium that manages network assets through asset tracking in an **e - Commerce** -based supply chain framework,  
 comprising:

(a) a code segment that caches content of a network...138

124

USER

INTERFACE DISPLAY

ADAPTER ADAPTER

132 126 128

Figure 1

202

200

m4

**E - Commerce** Market Space

206

AC's e-Supply Chain Enter  
 prise

..... -----

Demand Maintenance Procurement

Installation Order...SERVER PROCESSES, DISK SPACE,

MEMORYAVAILABILITY,CPUUTILIZATION,ACCESSTIMETO

SERVER, AND A NUMBER OF CONNECTIONS IN AN **E - COMMERCE**  
 SYSTEM

10404

UPDATING ITEIVIS SELECTED FROM THE GROUP CONSISTING OF  
 MERCHANDISING CONTENT, CURRENCY EXCHANGE RATES, TAX  
 RATES, AND PRICING IN THE **E - COMMERCE** SYSTEM AT  
 PREDETERMINED INTERVALS

10406

SYNCHRONONG EXTERNAL DATA STORED SEPARATELY FROM  
 THE ECOMMERCE SYSTEM WITH INTERNAL DATA STORED ON  
 THE **E - COMMERCE** SYSTEM

10408

MANAGING CONTACT INFORMATION RECEIVED FROM USERS OF  
 THE **E - COMMERCE** SYSTEM

10410

ALTERING THE ITEMS BASED ON PROFILES OF THE USERS OF  
 THE **E - COMMERCE** SYSTEM

Figure 104

96/129

Selection 9730

9734 9732

hat criteria determine who  
will be...Figure 120 \*Hardened OS 12004  
12104  
12102  
ase cat Web  
Server Server  
pp n  
Database  
Electronic Commerce LAN rewa Packet filte  
Router  
Developmenti ging  
Server Server n  
Fulfillment Dial  
Adminiltration Systems. Merchant...  
  
...Fulfillment F  
Systems  
Administration r  
12208 acy Merchant  
Database LAN  
Figure 122  
02  
PROVIDING AN E - COMMERCE APPLICATION WHICH ALLOWS THE  
PURCHASE OF PRODUCTS OR SERVICES  
RECEIVING INFORMATION ABOUT A CUSTOMER FROM...  
  
...INFORMATION ABOUT THE  
CUSTOMER  
Ir  
12 lo  
PROVIDING A DECISION SUPIORT SERVICE FOR MANAGING THE  
E - COMMERCE APPLICATION BASED ON THE ANALYSIS OF THE  
INFORMATION ABOUT THE CUSTOMER  
Figure 123  
110/129...  
...1  
1  
-- -  
Figure 124 Figure 125  
111/129  
02  
ANALYZING AN UNDERLYING ARCHITECTURE OF THE E  
COMMERCE COMPONENT  
04  
COMPARING THE UNDERUING ARCHITECTURE OF THE E  
COMMERCE COMPONENT WITH AN ARCHITECTURE OF THE  
FRAMEWORK OF THE ENTERPRISE  
ir  
06  
DETERMINING A COMPATIBILITY OF THE E - COMMERCE  
COMPONENT WITH THE FRAMEWORK OF THE ENTERPRISE  
08  
INTEGRATING THE E - COMMERCE COMPONENT WITH THE  
ARCHITECTURE OF THE FRAMEWORK OF THE ENTERPRISE  
10  
INTEGRATING THE E - COMMERCE COMPONENT WITH  
ENTERPRISE CAPABILITIES OF THE FRAMEWORK OF THE  
ENTERPRISE  
Ir  
DETERMINING WHETHER THE E - COMMERCE COMPONENT 12

REQUIRES AN AMITIONAL CAPABILITY, WHEREIN THE  
AMITIONAL CAPABILITY !S AMED AS AN ENTERPRISE...

17/3,K/8 (Item 8 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00806383

COLLABORATIVE CAPACITY PLANNING AND REVERSE INVENTORY MANAGEMENT DURING  
DEMAND AND SUPPLY PLANNING IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT  
AND METHOD THEREOF

PLANIFICATION EN COLLABORATION DES CAPACITES ET GESTION ANTICIPEE DES  
STOCKS LORS DE LA PLANIFICATION DE L'OFFRE ET DE LA DEMANDE DANS UN  
ENVIRONNEMENT DE CHAINE D'APPROVISIONNEMENT FONDEE SUR LE RESEAU ET  
PROCEDE ASSOCIE

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UA UG UZ VN YU ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

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(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

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Detailed Description

Claims

Detailed Description

... BASED SUPPLY CHAIN ENVIRONMENT AND METHOD THEREOF

FIELD OF INVENTION

The present invention relates to e - Commerce -based supply chains and  
more particularly pertains to collaborative capacity planning during  
demand and supply...

...thus a need for a supply chain intermediary to overcome these  
disadvantages, particularly in an e - Commerce enviromnent.

SUMMARY OF INVENTION

A system, method and article of manufacture are provided for  
collaborative...shift to interactive marketing; Figure 104 illustrates a

flowchart for a method for administrating an **e - Commerce** system on a network in accordance with an embodiment of the present invention; Figure 105...

...the present invention;  
Figure 108 depicts an example flow of business capabilities needed for complete **order** processing on an eCommerce implementation;  
Figure 109 illustrates a flowchart for a method for electronically...

...security architecture in an online banking scenario; Figure 121 illustrates a sample architecture in an **online shopping** scenario; Figure 122 shows an exemplary security architecture in an **online shopping** scenario; Figure 123 illustrates a flowchart for a method for manipulating data about a customer...

...the present invention; and  
Figure 126 illustrates a flowchart for a method for integrating an **e - Commerce** component into an existing framework of an enterprise in accordance with an embodiment of the environment for **electronic** content.

1 6

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

Figure 1 is a schematic diagram of...a plurality of suppliers. As yet another option, the order management process may further include **automatically** placing an **order** with the suppliers based on the order information through a communication network connecting the central... provide feature rich multimedia (voice, video, data) based communication services as well as enabling many **E - Commerce** services enabled by IP technologies. ...multi-point conference, enhanced security & authentication, various classes of media transport services, numerous automations in **electronic internet commerce** activities e.g. banking, shopping, 5 customer care, education, etc. As the NGN matures third...

...value added service providers will develop IP based services that will combine applications such as **electronic commerce** (procurement, warehousing, distribution and fulfillment) as well as online banking to present the consumer with an...service-related documents. It includes network performance, but also performance across all of service parameters,, **e ,g., Orders** Completed On Time. Outputs of this process are standard (predefined) and exception reports, including; dashboards...the epoch time that is the origination time of the call 3602. The other timepoint **stored** in the records are the number of seconds after Timepoint 1, that is, they are...

...a positive value.

Two commands are used when changing time. First, Figure 38 illustrates the **control** flow of the Change Time command, which changes the Local Switch ...its bill processing. The switch proceeds to step 3810 and 83

Figure 39 illustrates the **control** flow for the Change Daylight Savings Time command which is the second command for changing...

...separate fields of the 32-word call record. That is, the Originating Switch ID is **stored** as an alphanumeric Switch ID in the Switch ID field of the SER call record; the Originating Trunk Group is **stored** in the Originating Trunk Group field of the 32-word call record; the Originating Port Number is **stored** in the Originating Port field of the 32-word call

record; the Timepoint I is **stored** in the Timepoint I field of the 32-word call record; the Sequence Number is **stored** in the NCID  
85  
record.

Regarding the 64-word call record format, the expanded call record includes a separate field, call the NCID field, to **store** the 82 bits of the NCID. This call record is handled the same regardless of whether an originating, intermediate, or terminating switch **stores** the NCID. In the 64-word call record format, the Originating Switch ID is the...

...Switch ID as recorded in the SER call record.

1 5 Figure 40 illustrates the **control** flow of the Network Call Identifier switch call processing. A call 3602 comes into a...

...associated NCID. Step

87  
is also described below in more detail.  
Figure 41 illustrates the **control** logic for step 4010 which processes a received NCID. The current switch enters step 4102...4010, thereby continuing to step 4015 in Figure 40, after which the current switch will **store** the received NCID in the call record and transport the call.

Referring again to step...

...step 4010, thereby continuing to step 4015 in Figure 40 where the current switch will **store** the received NOD in the call record and transport the call.

Figure 42 illustrates the **control** logic for step 4014 which generates an NCID. The current switch enters step 4202 when...

...current switch writes the call record to the local switch database.

Figure 43 illustrates the **control** logic for step 4015 which adds a received NOD to the call record associated with...

...is available, the current switch proceeds to step 4306. In step 4306, the current switch **stores** the NCID in the AuthCode field of the 32-word call record. The current switch...

...set the NCID Location field to the value '1' which indicates that the NCID is **stored** in the AuthCode field. After step 4306, the current switch exits step 4015 and continues...

...not available in the 32-word call record,

89  
switch database.

Figure 44 illustrates the **control** logic for step 4020 which transports the call from the current switch. There are two entry points for this **control** logic: steps 4402 and 4412. Upon entering step 4402 from step 4036 on Figure 40...This field has a binary value of '01 I'to indicate that the NCID is **stored** in the binary format.

90  
byte 2, bits 0-7 Originating Switch ID  
byte 3...

...Indicates the format of the parameter



contents. This field has a binary value of '011' to indicate that the NCID is **stored** in the binary format.  
 byte 2, bits 0-7 Originating Switch ID  
 byte 3, bits...

...the telephone call to determine whether the default call record is sufficiently  
 93

large to **store** call record information pertaining to the telephone call, or whether the expanded call record must be used to **store** the call information pertaining to the telephone call. After determining which call record to use...an extension to the users existing profile information. The custom profile allows a user to **store** frequent conference call participants information. The profile contains participant's telephone numbers (which could be...

...along the Internet backbone and thus set down the key rules for data communication. Transmission **Control** Protocol/Internet Protocol (TCP/IP) has an open nature and is available to everyone, meaning...

...consists of a large set of data communications protocols, two of which are the Transmission **Control** Protocol and the Internet Protocol.

The International Telecommunication Union-Telecommunication Standardization Sector ("ITU") has established...

...Stream Packetization and Synchronization on nonguaranteed quality of service LANs.

ITU H.230 Frame-synchronous **Control** and Indication Signals for Audiovisual Systems 1 5 ITU H.231 Multipoint **Control** Unit for Audiovisual Systems Using Digital Channels up to 2 Mbit/s  
 ITU H.242...

...Terminals Using Digital Channels up to 2 Mbit/s  
 ITU H.245 Recommendation for a **control** protocol for multimedia communication ITU H.261 Recommendation for Video Coder-Decoder for audiovisual services...of 64 Kbps (thousand bits per second). This rate is not the rate required to **send** digitized voice per se. Rather, 64Kbps is the rate required to **send** voice digitized with the Pulse Code Modulated (PCM) technique. Many other methods for digitizing voice...

...receiver; instead, whenever the sender has a block of data to be sent, it is **stored** at the ...that attaches to both of them. Internet gateways and routers provide those links necessary to **send** packets between networks and thus make connections possible. Without these links, data communication through the...

...a newer term preferred by vendors.

These routers must make decisions as to how to **send** the data packets it receives to its destination through the use of continually **updated** routing tables. By analyzing the destination network address of the packets, routers make these decisions...In packet switching systems, routing is the process of choosing a path over which to **send** packets. As mentioned before, routers are the computers that make such choices. For the routing...

...speak of routing information across the Internet backbone. In indirect

delivery, routers are required. To **send** a datagram, the sender must identify a router to which the datagram can be sent...time.

This is utilized to predict when additional ports and/or resources are required.

#### Fault Management

104

The NGN operations architecture specifies the points of insertion and collections for network wide events that feed the **Fault Management** systems. Since the components of the packet portion of the hybrid NGN infrastructure are in most cases manageable by SNMP or some other standard **management** protocol the major challenges are the following.

1. Correlation of the events from the packet...

...and

3. Mediation and standardization of the network messages to aid processing by the network **management** framework of the NGN.

The network **management** components of the NGN provide comprehensive solutions to address these challenges. Correlation is provided by...

...the numerous messages that the NGN generates.

Figure 45 is a flowchart showing a **Fault Management** Process 4500 in accordance with a preferred embodiment of the present invention. The **Fault Management** Process 4500 begins with a transmitting step 4502. In step 4502, data is transmitted over...

...that the hybrid network generates,  
106

Figure 46 is a block diagram showing a **Fault Management** component 4600 in accordance with a preferred embodiment of the present invention. The **Fault Management** component 4600 records failures and exceptions in network devices (e.g. network routers or UNIX...framework like the one shown in Figure 53 to support various features such as an **electronic commerce** component 5300, a content channels component 5302, an administrative component 5304, a customer relationship management...such as distribution of entertainment on CD-ROM, content delivery from an Internet repository, or **electronic catalog shopping** and advertising, or some combination of the above) participants would be able to securely select...largely fixed functionality.

Furthermore, WAF permits participants to develop business models not feasible with non- **electronic commerce** , for example, involving detailed reporting of content usage information, large numbers of distinct transactions at...

...other administrative procedures that together with steps (1) through (5) can enable most "real world" **electronic commerce** and data security models, including models unique to the electronic world.

WAF's transaction management capabilities by existing participants. With WAF, **electronic commerce** participants are free to structure and restructure their **electronic commerce** business activities and relationships. As a result, the present invention allows a competitive

**electronic commerce** marketplace to develop since the use of WAF enables different, widely varying business models using...

...shared  
138  
content.

A significant facet of the present invention's ability to broadly support **electronic commerce** is its ability to securely manage independently delivered WAF component objects containing control information (normally...

...In combination with other aspects of the present invention, securely, independently delivered control components allow **electronic commerce** participants to freely stipulate their business requirements and trade offs. As a result, much as with traditional, non- **electronic commerce**, the present invention allows **electronic commerce** (through a progressive stipulation of various control requirements by WAF participants) to evolve into forms...

...are the most efficient, competitive and useful.

WAF provides capabilities that rationalize the support of **electronic commerce** and electronic transaction management. This rationalization stems from the reusability of control structures and user...

...or  
appliances (such as governments, financial credit providers, and users).

WAF allows the needs of **electronic commerce** participants to be served and it can bind such participants together in a universe wide...

...related communication and encryption techniques.

WAF's fundamental configurability will allow a broad range of competitive **electronic commerce** business models to flourish. It allows business models to be

141  
shaped to maximize revenues...models, take advantage of new revenue opportunities, and deliver product configurations most desired by users. **Electronic commerce** technologies that do not, as the present invention does.

support a broad range of possible...

...set)  
Creates personal catalog  
Referring to operation 5400 of Figure 54, one embodiment of the **electronic commerce** component of the present invention is provided for allowing purchase of products and services via...

...and currency  
Accessible easily throughout catalog  
As shown in Figure 55, one embodiment of the **electronic commerce** component of the present invention is provided for facilitating a virtual shopping transaction. First, a...

...in any one of a plurality of currencies such as electronic and foreign.

Recently, an **online shopping** system which allows examination,

selection and order of items through a computer has been put into practice. In such an **online shopping** system, in order to supplement a disadvantage by a gap from ordinary shopping caused by...

...used in a shop such as supermarket is proposed. In this function, items on the **online shopping** are temporarily added to a purchase list and a process of order and purchase is...display page as a catalog which the consumer watches as it is realized in the **online shopping** system mainly on the World Wide Web. As another method of proving the shopping basket...

...used in the shopping system provided by a CD-ROM.

A main stage of the **online shopping** is an item catalog screen on which information on the items is provided. The consumer...

...preparing the contents. It may be good that the user interface is uniform in one **online shop** but when it is applied across a plurality of **online shops** of various items and scales, free design cannot be conducted. This forces to the user...

...function is provided as a separate shopping basket window from a catalog window on which **online shop** item data is displayed. The shopping basket window is displayed on the catalog window and...process

148

With reference now to operation 5406 of Figure 54, another embodiment of the **electronic commerce** component of the present invention is provided for facilitating a virtual shopping transaction by ascertaining ...

...as a computer network, cable television network, or direct dial modem. Previous attempts to provide **electronic commerce** subsystems have been custom tailored to an individual commerce offering, and have not been adaptable...

...goods and services.

To meet this need, several companies have developed computer architectures for online **electronic** catalog **sales** using, for example, the Internet as a transport mechanism to transmit data representing purchase requests...Any of the foregoing types of browsers may employed to access various databases via the **Internet** in order to conduct **electronic commerce** -related business.

Typical database or file-based shopping cart systems require that the user be...robustly secure two-party data transmission, it does not meet the ultimate need of the **electronic commerce** market for robustly secure three-party data transmission. Other examples of general-purpose secure communication...selling, up-selling, advertisements, promotions to further detail or purchasing ability

One embodiment of the **electronic commerce** component of the present invention is adapted for advertising in a virtual shopping environment in ...the user.

1 5 The tremendous number of product types available to consumers at the **retail** level, e.g., in food and grocery, personal care, hardware and appliances, means that a...

- ...claims that a certain product can be purchased from a competitor for a certain (i. e ., lower) price. "Sale" prices are particularly problematic as such prices are typically only valid for...
- ...and maintain such an electronic information network is the individual end users which consume the **electronic** information. This **electronic** information, however, has different value to different users. For example, some users will be very...
- ...the amount of electronic advertising they receive with their electronic content.
- In addition, providers of **electronic** advertisements would be able to subsidize the cost of electronic content for end users. The...
- ...qty, product, shipping)  
169  
Referring to operation 5414 of Figure 54, another embodiment of the **electronic commerce** component of the present invention receives an order for at least one of the products...the automated store, the host computer communicating with the system  
171  
The quick-stop mass **retail** system may further include a system to enable a plurality of articles stored in a...5) infrastructure service and device providers such as telecommunication companies and hardware manufacturers (semiconductor and **electronic** appliance and/or other computer system manufacturers) who receive compensation based upon the use of...
- ...various underlying agreements between parties that comprise this extended agreement. These agreements can define important **electronic commerce** considerations including.
- (1) security,
  - (2) content use control, including electronic distribution,
  - (3) privacy (regarding, for...
- ...and/or appliance usage information and payment and/or credit.
- WAF agreements may define the **electronic commerce** relationship of two or more parties of a value chain, but such agreements may, at both electronic information and/or appliance usage and other **electronic** credit and/or currency usage and administration capabilities, (d) privacy protection for usage information a...
- ...promotion  
Sends leads to sales effectiveness systems  
Updates database of leads  
Another aspect of the **electronic commerce** component of the present invention has the purpose of capturing interest in a product, service...
- ...multiple auction formats (e.g. Dutch, Reserve)  
Allows tracking and analysis of auction histories  
The **electronic commerce** component of the present invention may include an auction component for permitting a user to...

Claim

... 124

USER

INTERFACE DISPLAY  
 ADAPTER ADAPTER  
 132 126 128  
 Figure 1  
 202  
 200  
 Informabon  
 206 E - Commerce Market Space

..... - - - - -  
 AC's e-Supply Chain Enterprise I  
 Network Fm@ainte7nance Pnx-u@ nt...

...0 Technology  
 management Sharing  
 0 Technology  
 sharing  
 Main Enable  
 N Collaborative 0 Supply chain 0 Electronic order E Asset tracking  
 tool N Plann  
 planning tool planning tool capture 0 Life cycle N...GROUP CONSISTING OF  
 10404  
 MERCHANDISING CONTENT, CURRENCY EXCHANGE RATES, TAX  
 RATES, AND PRICING IN THE E - COMMERCE SYSTEM AT  
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 MANAGING CONTACT INFORMATION RECEIVED FROM USERS OF  
 THE E - COMMERCE SYSTEM  
 10410  
 ALTERING THE ITEMS BASED ON PROFILES OF THE USERS OF  
 THE E - COMMERCE SYSTEM  
 Figure 104  
 96/130  
 Selection 9730  
 9734 9732  
 What criteria determine who  
 will be 12104  
 12102  
 cat on  
 rv  
 Ap n  
 Database  
 Electronic Commerce LAN Packet filte@  
 F  
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 Figure 122  
 02  
 PROVIDING AN E - COMMERCE APPLICATION WHICH ALLOWS THE  
 PURCHASE OF PRODUCTS OR SERVICES  
 I F

RECEIVING INFORMATION ABOUT A CUSTOMER FROM THE E - J04  
COMMERCE APPLICATION...

... INFORMATION ABOUT THE  
CUSTOMER

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PROVIDING A DECISION SUPPORT SERVICE FOR MANAGING THE

E - COMMERCE APPLICATION BASED ON THE ANALYSIS OF THE  
INFORMATION ABOUT THE CUSTOMER

Figure 123

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Figure 124 Figure 125

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02

ANALYZING AN UNDERLYING ARCHITECTURE OF THE E

COMMERCE COMPONENT

IF

04

COMPARING THE UNDERLYING ARCHITECTURE OF THE E

COMMERCE COMPONENT WITH AN ARCHITECTURE OF THE  
FRAMEWORK OF THE ENTERPRISE

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06

DETERMINING A COMPATIBILITY OF THE E - COMMERCE  
COMPONENT WITH THE FRAMEWORK OF THE ENTERPRISE

IF

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INTEGRATING THE E - COMMERCE COMPONENT WITH THE  
ARCHITECTURE OF THE FRAMEWORK OF THE ENTERPRISE

1 0

INTEGRATING THE E - COMMERCE COMPONENT WITH  
ENTERPRISE CAPABILITIES OF THE FRAMEWORK OF THE  
ENTERPRISE

DETERMINING WHETHER THE E - COMMERCE COMPONENT 12 12

REQUIRES AN ADDITIONAL CAPABILITY, WHEREIN THE  
ADDITIONAL CAPABILITY IS ADDED AS AN... )

17/TI/1 (Item 1 from file: 349)  
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SYSTEMS AND METHODS FOR COLLECTING CONSUMER DATA  
SYSTEMES ET PROCEDES DE RECUPERATION DE DONNEES CONSOMMATEURS

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ON-LINE E - COMMERCE SYSTEM AND METHOD USING AUTOMATIC VENDING APARATUS  
SYSTEME ET PROCEDE DE COMMERCE ELECTRONIQUE EN LIGNE UTILISANT UN  
DISTRIBUTEUR AUTOMATIQUE

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SYSTEM AND METHOD FOR MULTI-SOURCE TRANSACTION PROCESSING  
SYSTEME ET PROCEDE DE TRAITEMENT DE TRANSACTIONS A PLUSIEURS SOURCES

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METHOD AND SYSTEM FOR AUTOMATIC DISPATCHING OF DELIVERY SERVICE  
PROCEDE ET SYSTEME POUR L'EXPEDITION AUTOMATIQUE D'UN SERVICE DE LIVRAISON

17/TI/5 (Item 5 from file: 349)  
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TECHNOLOGY SHARING DURING ASSET MANAGEMENT AND ASSET TRACKING IN A  
NETWORK-BASED SUPPLY CHAIN ENVIRONMENT AND METHOD THEREOF  
PARTAGE TECHNOLOGIQUE LORS DE LA GESTION ET DU SUIVI DU PARC INFORMATIQUE  
DANS UN ENVIRONNEMENT DU TYPE CHAINE D'APPROVISIONNEMENT RESEAUTE, ET  
PROCEDE ASSOCIE

17/TI/6 (Item 6 from file: 349)  
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SCHEDULING AND PLANNING BEFORE AND PROACTIVE MANAGEMENT DURING MAINTENANCE  
AND SERVICE IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT  
PROGRAMMATION ET PLANIFICATION ANTICIPEE, ET GESTION PROACTIVE AU COURS DE  
LA MAINTENANCE ET DE L'ENTRETIEN D'UN ENVIRONNEMENT DU TYPE CHAINE  
D'APPROVISIONNEMENT RESEAUTE

17/TI/7 (Item 7 from file: 349)  
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NETWORK AND LIFE CYCLE ASSET MANAGEMENT IN AN E - COMMERCE ENVIRONMENT  
AND METHOD THEREOF  
GESTION D'ACTIFS DURANT LE CYCLE DE VIE ET EN RESEAU DANS UN ENVIRONNEMENT  
DE COMMERCE ELECTRONIQUE ET PROCEDE ASSOCIE

17/TI/8 (Item 8 from file: 349)



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COLLABORATIVE CAPACITY PLANNING AND REVERSE INVENTORY MANAGEMENT DURING  
DEMAND AND SUPPLY PLANNING IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT  
AND METHOD THEREOF

PLANIFICATION EN COLLABORATION DES CAPACITES ET GESTION ANTICIPEE DES  
STOCKS LORS DE LA PLANIFICATION DE L'OFFRE ET DE LA DEMANDE DANS UN  
ENVIRONNEMENT DE CHAINE D'APPROVISIONNEMENT FONDEE SUR LE RESEAU ET  
PROCEDE ASSOCIE

17/TI/9 (Item 9 from file: 349)

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METHOD FOR AFFORDING A MARKET SPACE INTERFACE BETWEEN A PLURALITY OF  
MANUFACTURERS AND SERVICE PROVIDERS AND INSTALLATION MANAGEMENT VIA A  
MARKET SPACE INTERFACE

PROCEDE DE MISE A DISPOSITION D'UNE INTERFACE D'ESPACE DE MARCHÉ ENTRE UNE  
PLURALITE DE FABRICANTS ET DES FOURNISSEURS DE SERVICES ET GESTION  
D'UNE INSTALLATION VIA UNE INTERFACE D'ESPACE DE MARCHÉ

17/TI/10 (Item 10 from file: 349)

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METHOD OF AND SYSTEM FOR ENABLING BRAND-IMAGE COMMUNICATION BETWEEN VENDORS  
AND CONSUMERS

PROCEDE ET SYSTEME PERMETTANT DE COMMUNIQUER UNE IMAGE DE MARQUE ENTRE DES  
VENDEURS ET DES CONSOMMATEURS

17/TI/11 (Item 11 from file: 349)

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SECURITY ARCHITECTURE WITH ENVIRONMENT SENSITIVE CREDENTIALS  
ARCHITECTURE DE SECURITE AVEC EVALUATION SUFFISANTE DE TITRES ACCREDITIFS  
SENSIBLES A L'ENVIRONNEMENT

17/TI/12 (Item 12 from file: 349)

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ACCESS MANAGEMENT SYSTEM AND METHOD EMPLOYING SECURE CREDENTIALS  
SYSTEME DE GESTION D'ACCES ET PROCEDE UTILISANT DES TITRES ACCREDITIFS SURS

17/TI/13 (Item 13 from file: 349)

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LOG-ON SERVICE PROVIDING CREDENTIAL LEVEL CHANGE WITHOUT LOSS OF SESSION  
CONTINUITY

SERVICE D'ENTREE EN COMMUNICATION GENERANT UN CHANGEMENT DE NIVEAU DE TITRE  
ACCREDITIF SANS PERTE DE CONTINUITE DE SESSION

17/TI/14 (Item 14 from file: 349)

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SINGLE SIGN-ON FRAMEWORK WITH TRUST-LEVEL MAPPING TO AUTHENTICATION

REQUIREMENTS  
STRUCTURE D'ENTREE EN COMMUNICATION UNIQUE AVEC APPLICATION DE NIVEAU DE  
FIABILITE A DES DEMANDES D'AUTHENTIFICATION

17/TI/15 (Item 15 from file: 349)  
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A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR MAINTAINING DATA IN AN E -  
COMMERCE BASED TECHNICAL ARCHITECTURE  
SYSTEME, PROCEDE ET ARTICLE MANUFACTURE DE MAINTIEN DES DONNEES DANS UNE  
ARCHITECTURE TECHNIQUE DE COMMERCE ELECTRONIQUE

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APPLICATION FIREWALL  
COURTIER DE DONNEES SECURISE

17/TI/17 (Item 17 from file: 349)  
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COMPUTER METHOD AND APPARATUS ENABLING WHOLESALE COMMERCE  
PROCEDE ET APPAREIL INFORMATIQUES PERMETTANT LE COMMERCE DE GROS

17/TI/18 (Item 18 from file: 349)  
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NEW MEDIA ELECTRONIC COMMERCE (NMEC) SYSTEM AND METHOD  
NOUVEAUX SYSTEMES ET PROCEDES DE COMMERCE ELECTRONIQUE MEDIA (NMEC)

17/TI/19 (Item 19 from file: 349)  
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METHOD AND SYSTEM FOR REAL-TIME CONTRACTS, ADMINISTRATION, AND FINANCIAL  
CONTROL TO PROCESS ELECTRONIC CREDIT APPLICATIONS AND INSURANCE  
SERVICES VIA A GLOBAL COMMUNICATIONS NETWORK  
PROCEDE ET SYSTEME DE CONTRATS EN TEMPS REEL, D'ADMINISTRATION ET DE  
CONTROLE FINANCIER PERMETTANT UN TRAITEMENT ELECTRONIQUE DES DEMANDES  
DE CREDIT ET SERVICES D'ASSURANCE VIA UN RESEAU DE COMMUNICATIONS  
GLOBAL

17/TI/20 (Item 20 from file: 349)  
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SYSTEM FOR THE DISTRIBUTION OF NARCOTICS  
SYSTEME DE DISTRIBUTION DE STUPEFIANTS

17/TI/21 (Item 21 from file: 349)  
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SYSTEM FOR AUTOMATED PROCESSING OF HEALTH CARE CUSTOMER PURCHASE ORDERS  
SYSTEME POUR LE TRAITEMENT AUTOMATIQUE DES COMMANDES D'ACHAT DE CLIENTS DE

SOINS DE SANTE

17/TI/22 (Item 22 from file: 349)  
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SYSTEM AND METHOD FOR MANAGING AND SERVING CONSUMER PRODUCT RELATED  
INFORMATION OVER THE INTERNET  
SYSTEME ET PROCEDE PERMETTANT DE GERER ET DE TRANSMETTRE SUR INTERNET DES  
INFORMATIONS RELATIVES A DES PRODUITS DE CONSOMMATION

? ds

Set	Items	Description
S1	4167592	REALTIME OR REAL()TIME OR AUTOMATIC? OR DYNAMIC? OR LIVE OR ON(1W)FLY OR IMMEDIATE? OR INSTANT? OR INTERACTIV? OR JUST(1-W)TIME OR JIT
S2	4365821	STOCK OR INVENTORY OR MERCHANDISE OR COMMODITY OR ORDER? ? OR SALE? ?
S3	10904547	CONTROL OR MANAGEMENT OR MONITOR? OR REPORT? OR TRACK?
S4	1304472	AVAILABILIT? OR STATUS OR BALANCE? OR IN()STOCK OR OUT(1W)-STOCK
S5	7772028	LEVEL? OR QUANTITY OR TARGET? ? OR AMOUNT OR NUMBER OR QUOTA
S6	370106	NOTICE OR NOTIFY OR NOTIFICATION? OR ALERT? OR UPDATE? ? OR TRANSMIT OR SEND OR EMAIL OR BULLETIN()BOARD
S7	6701160	MANAGER? ? OR MANAGEMENT OR STORE? ? OR CONTROL OR STOCKROOM? ?
S8	97118	S2(1N)S3
S9	1619	S8(2N)S1
S10	20689	S6(10N)S7
S11	1	S9(S)S10

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09459076

Yelland in drive to sell mobile commerce

AUSTRALIA: MCOM UNVEILS MOBILE COMMERCE DEVICE  
The Star (XAT) 09 Feb 2001 Business p.9  
Language: ENGLISH

MCom Solutions of Australia has launched its mobile commerce device known as MTD3000 in the country. The hand-held Eftpos device is a fully integrated system that can perform the following functions/tasks: - conducting direct debits from bank accounts - **real-time inventory management** - **send** /receive SMS messages - make telephone calls - make credit and debit card payments MCom has already inked a distribution agreement to sell 50,000 units of the MTD3000 device in China. Meanwhile, in New Zealand, the device is being actively promoted.

COMPANY: MCOM SOLUTIONS

PRODUCT: Cellular Radio Equipment (3662CE);

EVENT: Product Design & Development (33);

COUNTRY: China (9CHN); Australia (9AUS); New Zealand (9NEZ);

? ds

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S3	10904547	CONTROL OR MANAGEMENT OR MONITOR? OR REPORT? OR TRACK?
S4	1304472	AVAILABILIT? OR STATUS OR BALANCE? OR IN()STOCK OR OUT(1W)-STOCK
S5	7772028	LEVEL? OR QUANTITY OR TARGET? ? OR AMOUNT OR NUMBER OR QUOTA
S6	370106	NOTICE OR NOTIFY OR NOTIFICATION? OR ALERT? OR UPDATE? ? OR TRANSMIT OR SEND OR EMAIL OR BULLETIN()BOARD
S7	6701160	MANAGER? ? OR MANAGEMENT OR STORE? ? OR CONTROL OR STOCKROOM? ?
S8	97118	S2(1N)S3
S9	1619	S8(2N)S1
S10	20689	S6(10N)S7
S11	1	S9(S)S10
S12	2539	S8(5N)S1
S13	65166	S4(10N)S5
S14	17	S12 AND S13
S15	0	S14 AND S10
S16	0	S14 AND S6
S17	17	S14 AND S7
S18	64874	(E OR ELECTRONIC OR ONLINE OR INTERNET OR CYBER) (1W) (COMMERCE OR SHOP? OR RETAIL? OR SALES OR SELLING OR ORDER? ? OR ORDERING)
S19	2	S17 AND S18

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09633729  
Top 100 Interactive Agencies  
UK: Survey of interactive agency landscape  
New Media Age (UCS) 08 Nov 2001 Online  
Language: ENGLISH

The results of a survey by NMA Top 100 Interactive Agencies, formulated after speaking with more than 300 UK interactive agencies, indicated that CRM (customer relationship **management**) is seen as the key area of growth over the next year by more than 33% of the UK's interactive agencies. An increasing **number** of agencies are changing their **status** from full-service to specialisms such as iTV, CRM and marketing. The biggest non-media agency is US-owned Modem Media with a last financial year turnover of GBt 19.8mn. Consultancy Rubus, with year 2000 sales of GBt 17.8mn, takes second place. The biggest **online media shop** is Mediacom's online planning and buying arm Beyond **Interactive** with **reported sales** of GBt 34.9mn for the last financial year. The second place was taken by independent i-level with year 2000 billings of GBt 18mn. Large advertising networks like Havas and Omnicom own 56% of listed on line media agencies. \*

COMPANY: RUBUS; BEYOND INTERACTIVE; INDEPENDENT I-LEVEL; HAVAS; OMNICOM

PRODUCT: Advertising (7310); Marketing (9914);  
EVENT: General **Management** Services (26); Sales & Consumption (65);  
Market & Industry News (60);  
COUNTRY: United Kingdom (4UK);

19/5/2 (Item 1 from file: 8)  
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05593650 E.I. No: EIP00065225154  
**Title: Dalton Box launches new name**  
Author: Anon  
Source: Official Board Markets v 76 n 23 2000. 1 pp  
Publication Year: 2000  
CODEN: 002918 ISSN: 0030-0284  
Language: English  
Document Type: JA; (Journal Article) Treatment: G; (General Review)  
Journal Announcement: 0008W2  
Abstract: Corrugated supplier Dalton Box & Container, Mt. Pleasant, S.C., is changing its parent company name to National Packaging Solutions Group, Inc. (NPSG), to brand its range of packaging products and services to customers. NPSG's capabilities and services include: 17 locations in 8 states throughout the southeast and Ohio; a **management** system for customers' inventories, including just-in-time delivery; converting capability and customized packaging design that provide products ranging from standard brown boxes to intricate diecuts, high impact graphics, point of purchase displays, and protective foam inner packs; **E - commerce** solutions for customers to place orders and check inventory **levels** and order **status**; and individual on-site customer service.  
Descriptors: Paper and pulp mills; Packaging materials; Corrugated containers; **Inventory control**; **Just in time** production; **Electronic commerce**  
Identifiers: Corrugated boxes; Customer service; South Carolina; Ohio

## Classification Codes:

694.2 (Packaging Materials); 694.1 (Packaging); 911.3 (Inventory Control); 913.1 (Production Engineering); 723.5 (Computer Applications)  
811 (Cellulose, Paper & Wood Products); 694 (Packaging & Storing); 911 (Industrial Economics); 913 (Production Planning & Control); 723 (Computer Software)  
81 (CHEMICAL PROCESS INDUSTRIES); 69 (MATERIALS HANDLING); 91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)



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S7	6701160	MANAGER? ? OR MANAGEMENT OR STORE? ? OR CONTROL OR STOCKROOM? ?
S8	97118	S2(1N)S3
S9	1619	S8(2N)S1
S10	20689	S6(10N)S7
S11	1	S9(S)S10
S12	2539	S8(5N)S1
S13	65166	S4(10N)S5
S14	17	S12 AND S13
S15	0	S14 AND S10
S16	0	S14 AND S6
S17	17	S14 AND S7
S18	64874	(E OR ELECTRONIC OR ONLINE OR INTERNET OR CYBER) (1W) (COMMERCE OR SHOP? OR RETAIL? OR SALES OR SELLING OR ORDER? ? OR ORDERING)
S19	2	S17 AND S18
S20	14409	S8 AND S1
S21	14409	S20 AND S1
S22	863	S21 AND S4
S23	341	S22 AND S5
S24	15	S23 AND S6
S25	15	S24 AND S7
S26	0	S25 AND S18
S27	14	RD S25 (unique items)
S28	10	S27 NOT PY>2001

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03371103 INSPEC Abstract Number: C89030837

**Title:** Operational controls of AS/RS using AI problem solving concepts  
**Author(s):** Seidmann, A.  
**Author Affiliation:** William E. Simon Graduate Sch. of Bus. Admin.,  
Rochester Univ., NY, USA  
**Conference Title:** Recent Developments in Production Research. Collection  
of Refereed Papers Presented at the IXth International Conference on  
Production Research p.385-95  
**Editor(s):** Mital, A.  
**Publisher:** Elsevier, Amsterdam, Netherlands  
**Publication Date:** 1988 **Country of Publication:** Netherlands xxii+898  
pp.  
**ISBN:** 0 444 42929 8  
**Conference Date:** 17-20 Aug. 1987 **Conference Location:** Cincinnati, OH,  
USA

**Language:** English **Document Type:** Conference Paper (PA)  
**Treatment:** Theoretical (T)  
**Abstract:** Presents a new approach to the operational controls of  
automated storage and retrieval systems (AS/RS). It is based on artificial  
intelligence, state-operator framework for problem solving. Three goal  
functions were developed step by step, while increasing the information  
**level**. The first function is a linear combination of parameters that  
indicates the correspondence of a specific cycle to the desired policy. The  
second one **dynamically updates** coefficient weights in the goal  
function, utilizing more information about the system **status**, actually  
performing adaptation of the policy in **real time**. The third goal  
function includes a parameter that deals with **dynamic** location assignment  
of items in the warehouse. It is shown that the proposed approach is  
superior to the common industrial **control** method currently used in  
similar industrial systems and that increasing the information **level**  
actually results in improved performance. (16 Refs)

**Subfile:** C  
**Descriptors:** problem solving; production **control**; scheduling; **stock  
control**

**Identifiers:** AI; artificial intelligence; automated storage/retrieval  
systems; operational controls; production **control**; **stock control**;  
AS/RS; problem solving; goal function; **dynamic** location assignment;  
warehouse; industrial **control**

**Class Codes:** C1290F (Industry); C1230 (Artificial intelligence)

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02669103 INSPEC Abstract Number: B86037476, C86030763

**Title:** Case studies and implementations of LDI arrangements. II  
**Author(s):** Anderson, D.  
**Author Affiliation:** Temple, Barker & Sloane Inc., Lexington, MA, USA  
**Journal:** Data Communications vol.15, no.2 p.173-82  
**Publication Date:** Feb. 1986 **Country of Publication:** USA  
**CODEN:** DACODM **ISSN:** 0363-6399  
**Language:** English **Document Type:** Journal Paper (JP)  
**Treatment:** Applications (A); General, Review (G)  
**Abstract:** For pt.I see ibid. vol.15 no.1, p.157-64, (1985). This article,  
second in a series, discusses how many companies have used logistics data

interchange (LDI) in order to reduce costs and make operations more efficient. Logistics data interchange is actually a family of related information flows and communications facilities all focused on monitoring material and product movements from vendors, among company facilities, and to customers. For example, LDI may involve transferring information among only internal company locations or databases, drawing information from or transmitting information to external databases (owned by vendors or transportation carriers), or integrating internal and external data sources on a **real - time** basis. LDI linkages between vendors and their customers can use either in-house or third-party communications facilities. Logistics data that is interchanged between companies and their vendors may include material purchase-orders, shipment **notification** and **status**, order changes and cancellations, and inventory **status** (either at vendor or company locations). A **number** of case studies illustrate both third-party and in-house LDI options for vendor/company linkages. (0 Refs)

Subfile: B C

Descriptors: distributive data processing; **stock control** data processing

Identifiers: monitoring product movements; materials movements monitoring ; logistics data interchange; LDI; information flows; communications facilities; company facilities; customers; LDI linkages; material purchase-orders; shipment **notification** ; order changes; inventory **status** ; case studies; vendor/company linkages

Class Codes: B6210L (Computer communications); C5620 (Computer networks and techniques); C7160 (Manufacturing and industry); C7180 (Retailing and distribution)

28/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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02407136 INSPEC Abstract Number: C85016384, D85000633

**Title: A stock solution to bits and bobs (electronics industry)**

Author(s): Newman, F.

Journal: Micro Decision no.39 p.85-90

Publication Date: Jan. 1985 Country of Publication: UK

CODEN: MIDEEDG ISSN: 0261-5142

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A)

Abstract: Amplicon runs the Anagram package on a Commodore 8096 micro with a 22 Mbyte hard disk. All the orders, with details of how many items are expected and when they are due, are held on this machine. When orders are delivered they are checked manually from despatch notes which then come up to the computer operator and are checked manually against the orders. Details of customers are held manually. Although allocations of stock to customers is done **automatically** by the system so there is always an up-to-date record of how much stock is free, the computer only holds customer codes so goods and customers are linked by hand. Amplicon also implemented two extra facilities-the ability to get a stock valuation by class of stock item instead of just a bulk valuation, and a minimum/maximum stock **level** option. This second feature means that if stocks of a certain item go below or above fixed **levels**, then the item is highlighted on the screen. Apart from the 8096, two other 8096 micros are linked to share the hard disk. One is used to **update** stock details. The third terminal is used by the sales department to help with customer inquiries. The department can see what is in **stock** and what is on order so they can make a firm promise to customers. (0 Refs)

Subfile: C D

Descriptors: manufacturing industries; software packages; **stock**

**control ; stock control data processing**

Identifiers: Anagram package; software packages; **stock control** ; small businesses; Amplicon; Commodore 8096 micro; despatch notes; stock valuation ; minimum/maximum stock **level** option; hard disk; sales department; customer inquiries

Class Codes: C7160 (Manufacturing and industry); D2070 (Industrial and manufacturing)

28/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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00012149 INSPEC Abstract Number: C69001504

**Title:** Electronic device for automatic stock location and control in stores

**Author(s):** Anisimov, B.V.; Bogdanov, I.A.; Krasnov, N.A.; Solomatin, N.M.; Lazarevskii, M.M.; Nekrasov, B.K.

**Journal:** Mekhanizatsiya i Avtomatizatsiya Proizvodstva no.6 p.22-6

**Publication Date:** June 1968 **Country of Publication:** USSR

**CODEN:** MAVPAC **ISSN:** 0025-8873

**Language:** Russian **Document Type:** Journal Paper (JP)

**Abstract:** A Russian system for automatic stock location and control is based on the storage of stock items in special boxes fitted with electrocontact probes, which transmit a signal when the weight of the box drops to a preset minimum. The binary system records and stores these minimum stock level signals and on command from the operator prints out the stock position on an automatic typewriter. The system is described in detail and the decoder, long-term information storage and recorder are illustrated. The system can handle up to 1000 stock items, carries out 1500 checks per second, prints out 7 digits per second and is built up from standard elements.

**Subfile:** C

**Descriptors:** electric sensing devices; **stock control**

**Class Codes:** C3240D (Electric transducers and sensing devices); C3320 (Materials handling)

28/5/5 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01837852 ORDER NO: AADAA-IC806344

**Power control and transmission rate management in cellular radio systems: A snapshot analysis approach**

**Author:** Jantti, Riku Jukka

**Degree:** D.Sc.

**Year:** 2001

**Corporate Source/Institution:** Teknillinen Korkeakoulu (Helsinki) (Finland) (5766)

**Source:** VOLUME 62/04-C OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 621. 147 PAGES

**Descriptors:** ENGINEERING, ELECTRONICS AND ELECTRICAL

**Descriptor Codes:** 0544

**ISBN:** 951-22-5466-2

**Publisher:** Control Engineering Laboratory, Helsinki University of Technology, P.O. Box 5400, FIN-02015, Helsinki, Finland

A scarce radio spectrum imposes great limitations on the design of cellular radio systems. To provide the communication services with a high

capacity and a good quality of service requires powerful methods for sharing the radio spectrum in the most efficient way. In practice, all sharing methods introduce interference which is proportional to transmitter powers. Transmitter power **control** is an essential technique to **balance** received signal strength and interference power, which in turn enables more efficient sharing.

Emerging multimedia service can be characterized by a different quality of service requirements such as minimum transmission rates and maximum packet delays. For a **real - time** service, a tolerable minimum rate must be guaranteed to the users. However, non- **real - time** applications, i.e., delay insensitive applications, may temporarily lower their transmission rates as low as zero, using any excess capacity that the system is able to provide.

For fixed-rate systems, we study the effect, of additional information on the convergence speed of CIR-based power **control** algorithms. For that purpose we propose a linear power **control** framework and two new algorithms. The algorithms are compared with the distributed constrained power **control** algorithm (DCPC) [40], which is one of the most widely accepted algorithms by the academic community. The first novel power **control** algorithm proposed in this thesis is called a second- **order** power **control** algorithm (SOPC) and the other is called a block power **control** algorithm (BPC). SOPC utilizes power **levels** at current as well as previous iterations to compute power **updates** in a distributed fashion. The benefit of such a second-order algorithm is faster convergence. In bunched systems, it is assumed that some of the link gains are available for radio resource **management** functions. BPC utilizes this partial knowledge of the link gain matrix to increase the convergence speed. Besides convergence speed, another important aspect of power **control** is energy efficiency. We generalize DCPC not to necessarily utilize maximum power if interference power is high. The generalized algorithm performs better than DCPC in terms of energy consumption and outage probability.

For multi-rate (multimedia) system, we examine the combined power **control** and transmission rate selection problem. Our theoretical results suggest that the problem of minimizing the maximum packet delay can be, solved by successively maximizing throughput at each time **instant**. This justifies the study of throughput maximization algorithms such as the selective power **control** algorithm (SPC) suggested by Kini, Rosberg and Zander [61]. In this thesis, we improve SPC by adding an active link protection property [12, 10] to it. The new algorithm is shown to achieve the same or a slightly, higher capacity with higher energy efficiency and smoother outage. In addition, a centralized packet scheduling algorithm based on knapsack packing method is discussed.

The emphasis is on spread spectrum code division multiple access systems, although many of the results are applicable to other systems as well.

28/5/6 (Item 2 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01161361 ORDER NO: AAD91-17343

APPLICATION OF STOCHASTIC MODELING TECHNIQUES TO WASTEWATER TREATMENT PROCESSES REAL - TIME OPERATION AND CONTROL

Author: CAPODAGLIO, ANDREA GIUSEPPE

Degree: PH.D.

Year: 1990

Corporate Source/Institution: MARQUETTE UNIVERSITY (0116)

Adviser: VLADIMIR NOVOTNY

Source: VOLUME 52/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 495. 212 PAGES

Descriptors: ENGINEERING, SANITARY AND MUNICIPAL; ENGINEERING, CIVIL

Descriptor Codes: 0554; 0543

The issue of **real - time control** of wastewater treatment facilities and sewerage systems has become a promising and active area of research in the last few years. However, in **order to control** and operate a wastewater treatment plant, a good representing model becomes necessary. Such a model should allow prediction of the future **status** of the system, and should also be able to adapt itself to the changing conditions in which the system operates.

A wastewater treatment plant is a system whose behaviour is in part conditioned by its **immediate** past history: this is called a **dynamic** system. **Dynamic** systems modelling can be successfully achieved by means of stochastic processes, with a technology known as "Time series analysis". This dissertation determines that it is possible to develop a modeling of wastewater treatment operation based on stochastic relationships. In addition, this work investigates how these models can be usefully employed in the perspective of achieving **real - time control** of such facilities, and the practical implications the models can have on current design and engineering practices. In particular, this work shows that steady-state relationships between variables are not suitable, in general, to significantly represent time-variant processes.

Models identified through time series analysis can be compared with traditional deterministic models expressed in differential equations. The identification of these models is relatively simple, and they can be easily **updated** to closely follow smooth variations in the behavior of the system. The resulting models are site-specific; that is, they are a functional consequence of the performance records of each treatment plant. This accounts for those unique conditions which are necessarily not considered in the general kinetic theory of the processes.

This type of technique can be further implemented in **control** procedures that can be **interactively** used at a "friendly" **level** by skilled staff of treatment facilities, or even be completely automated, as already proven by applications in several areas of industry. This work outlines the requirements for such an implementation, and discusses the repercussions of the **availability** of **real - time control** technology on wastewater treatment facilities design.

28/5/7 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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0645152 NTIS Accession Number: PB-269 609/4/XAB

**Supplies Inventory, User's Guide**

Bureau of the Census, Suitland, Md. Budget Div.

Report No.: CEN/DF-77/004A

Apr 77 50p

Journal Announcement: GRAI7720

For system on magnetic tape, see PB-269 608.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

The Supplies Inventory System is a semi-monthly **update** of consumable stock items inventory. The input is the receipt documents from vendors and the issue documents showing transfer of stock items to the open stock room and to specific divisions. During the **update** process the remaining

**balance** on hand of each stock item is checked against a predetermined minimum **balance** and if **quantity** is less than minimum **balance**, an order is **automatically** prepared. An undelivered order record for input to the accounting system is prepared whenever an order is placed. Charges for supplies used by each division are prepared during this process and entered into the accounting system monthly. Open stock room items are charged on a percentage based on **number** of employees per division.

Descriptors: **Inventory control** ; \*Computer programming; Accounting; Inventories; Programming manuals

Identifiers: IBM 360/40 computers; Cobol; NTISCOMCEN; NTISGSASFSE

Section Headings: 70A\* (Administration and Management--Inventory Control)  
; 62B\* (Computers, Control, and Information Theory--Computer Software)

28/5/8 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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0645151 NTIS Accession Number: PB-269 608/6/XAB

**Supplies Inventory**

(Software)

Bureau of the Census, Washington, D. C. Budget Div.

Report No.: CEN/DF-77/004

15 Feb 74 mag tape

Journal Announcement: GRAI7720

Includes documentation.

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This system is a semimonthly **update** of consumable stock items inventory. The input is the receipt documents from vendors and the issue documents showing transfer of stock items to the open stock room and to specific divisions. During the **update** process the remaining **balance** on hand of each stock item is checked against a predetermined minimum **balance** and if **quantity** is less than minimum **balance** an order is **automatically** prepared. An undelivered order record for input to the accounting system is prepared whenever an order is placed. Charges for supplies used by each division are prepared during this process and entered into the accounting system monthly. Open stock room items are charged on a percentage based on **number** of employees per division. Fedstrip orders for nonstock items of GSA are punched and processed through this system to maintain the uniformity of orders and the accounting systems undelivered orders. Monthly the receipt records from this system are reconciled with the accounting systems accruals for supplies. Differences are noted and reviewed for purposes of balancing the inventory general ledger account.

Descriptors: **Inventory control** ; \*Software; \*Computer programs; Accounting; Inventories; Magnetic tapes

Identifiers: IBM 360/40 computers; Operating system = DOS; Software type = System; Batch processing mode; System application = **Management** /business ; Cobol D programming language; Computer memories = 30k; Program statements = 3197; Tape drives = four; Disc-drum units = 29.176M bytes; NTISGSASFSE; NTISCOMX

Section Headings: 70A\* (Administration and Management--Inventory Control)  
; 62B\* (Computers, Control, and Information Theory--Computer Software)

28/5/9 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)



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00632918 E.I. Monthly No: EI7706044899 E.I. Yearly No: EI77088944

**Title: COMPUTER TOOL CONTROL SYSTEM OFFERS MANY ADVANTAGES.**

Author: Bontempo, Renzo

Corporate Source: Martin Marietta Aerosp, Orlando, Fla

Source: Assembly Engineering v 20 n 3 Mar 1977 p 38-40

Publication Year: 1977

CODEN: AYEGA4 ISSN: 0004-5063

Language: ENGLISH

Journal Announcement: 7706

Abstract: A computerized standard tools **control** system in use at Martin Marietta Aerospace Division, Orlando, Fla, is playing a vital role in reducing costs, and providing accurate information to **management** concerning the **status** of all tools. The information objectives were: locations of individual tools and their inventory **levels** for the entire plant; inventory of tools charged to each custodian; total inventory **level** and its dollar value; scrap rate for each tool; **automatic notification** when a reorder point is reached, utilizing min/max data; and better overall **management control**. Each tool crib has a data collection terminal and a CRT device used to display standard tool data. Additional CRTs at key points are tied into the system for **management** and **control** use. The system is on-line and performs all functions in a **real - time** mode.

Descriptors: TOOLS, JIGS AND FIXTURES--\* **Inventory Control** ; **INVENTORY CONTROL** --Computer Applications; TOOLS, HAND-- **Inventory Control**

Classification Codes:

603 (Machine Tools); 604 (Metal Cutting & Machining); 911 (Industrial Economics); 605 (Small Tools & Hardware); 723 (Computer Software)

60 (MECHANICAL ENGINEERING); 91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)

28/5/10 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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03226557 Genuine Article#: NN239 Number of References: 8

**Title: INFORMATION-RETRIEVAL IN SOLID-WASTE MANAGEMENT**

Author(s): MANDHANI P; TITTLEBAUM M; PANCHAKARLA P; BARRY C

Corporate Source: INNOVAT EMERGENCY MANAGEMENT, 7423 PICARDY AVE, SUITE E/BATON ROUGE//LA/70808; LOUISIANA STATE UNIV, INST RECYCLABLE MAT/BATON ROUGE//LA/70803; LOUISIANA STATE UNIV, DEPT LIB & INFORMAT SCI/BATON ROUGE//LA/70803

Journal: JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-ENVIRONMENTAL SCIENCE AND ENGINEERING, 1994, V29, N4, P713-728

ISSN: 0360-1226

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: SciSearch; CC AGRI--Current Contents, Agriculture, Biology & Environmental Sciences

Journal Subject Category: ENVIRONMENTAL SCIENCES

Abstract: The passage of the solid waste recycling and reduction laws across the United States has created a flurry of activity within environmental protection agencies. These laws have made it essential for these agencies to achieve the set **target** and so each state government has ordered for proper planning. A system that contains data on the **amount** of waste generated in various governmental entities and the waste management practices followed by each will be helpful in this planning.

In Louisiana, recycling coordinators were hired, recycling committees were formed and recycling plans were written. Parish recycling coordinators needed information concerning recycling techniques, commodities markets and other important aspects of solid waste **management** in **order** to more efficiently write, review and **update** their recycling plans. Unfortunately, locating the appropriate articles, publications and other pertinent data is difficult, at best. The Institute for Recyclable Materials (IRM) under contract with the Louisiana Department of Environmental Quality (LaDEQ) compiled a comprehensive computerized recycling and solid waste **management** bibliography and developed an online data retrieval system for parish recycling coordinators to use in their search for relevant materials.

This article discusses the specific techniques utilized in developing this information retrieval system for Municipal Solid Waste (MSW) **management**. The retrieval system should be developed in each state individually as the laws vary from state to state. This article will aid other agencies in developing such a system. The laws passed in various states also make it necessary for the planners to gather information on the waste generated and various waste **management** practices so as to achieve their waste reduction goals. This type of retrieval system will assist these coordinators in meeting state goals and requirements in a timely manner.

The U.S. Congress has passed various laws concerning pollution, solid wastes, and landfill disposal. Also, the media has been responsible for increasing people's awareness toward the environment. This has created a need for information regarding the impact of solid waste disposal: recycling benefits and limitations, markets for recycled materials, and the overall feasibility of recycling, present **status** of research, etc. According to Czek (1991), there has been a flurry of activity within local governments in regard to this increase in environmental concern. They are hiring recycling coordinators, forming recycling communities, and writing recycling plans. These activities require a great deal of information, and finding the appropriate articles, publications, recycling centers, and other important data is difficult and very time consuming.

A standard definition of information is data that aids in the decision-making process. Information which can be retrieved when required is increased in value, while long delays may render the information useless. Environmental engineering is a fast developing field and extensive research is being done and valuable data generated at various places, including universities. This data is voluminous and more is added every day. The **quantity** of environmental data has increased dramatically and is probably going to increase (Rose and Smith 1992). People, industries, and government need information on recycling, regulations, trends, and projections **immediately** - a task made possible only through the use of computerized online information retrieval systems where a user sits before a computer and may get required information **instantaneously**. According to Mandhani and others (1992), the Institute for Recyclable Materials (IRM) at Louisiana State University has developed an information retrieval system called Solid Waste Information Management Systems (SWIMS). SWIMS has been developed for the Louisiana Department of Environmental Quality (LaDEQ) for users such as parish recycling coordinators. In an online information search, the users either use a hard-wired connection or need a modem and communication software.

Descriptors--Author Keywords: INFORMATION RETRIEVAL ; COMPUTER ; EFFICIENT SEARCH ; SOLID WASTE ; RECYCLING

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